Date: 01.08.2024



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Kit Components

Kit Product No.	Kit Product Description	
212539	KIT GRAM STAIN STABILIZED	

Kit Component(s)	Kit Component(s) Description			
0332975BJAA	Gram Crystal Violet			
0333075BJAA	GRAM DECOLORIZER 250ML			
0333275BJAA	Gram Safranin			
0334275BJAA	STABILIZED GRAM IODINE 250ML			

IMDG

UN number or ID number: UN 3316
UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9
Label(s): 9
EmS No.: F-A, S-P

Packing Group:

Environmental Hazards: Not Regulated.

Marine Pollutant: No

Special precautions for user: Not Regulated.

IATA

UN number or ID number: UN 3316
Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es):

Class: 9
Label(s): 9MI
Packing Group: II

Date: 01.08.2024



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Environmental Hazards: Not Regulated.

Marine Pollutant: No

Cargo aircraft only: Forbidden.

Special precautions for user: Not Regulated.

Please note: If a listed component does not have a corresponding document included, this means that the product is not hazardous and does not require a Safety Data Sheet.



Last revised date: 07/23/2024

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SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0332975BJAA	Gram Crystal Violet	No data available

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory Chemicals Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152

USA

Telephone: 1 844 823 5433 Fax: not available

Contact Person: Business Unit Product Stewardship Team

E-mail: IDS_SDS@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3 Static-accumulating flammable liquid Category 1

1/34 SDS_CA





Health Hazards

Serious Eye Damage/Eye Irritation Category 2A
Carcinogenicity Category 1B
Specific Target Organ Toxicity - Category 1
Single Exposure

Environmental Hazards

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

Category 3

Category 3

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H226: Flammable liquid and vapor.

FK: Static accumulating flammable liquid can become electrostatically

charged even in bonded and grounded equipment.

Spark: Sparks may ignite liquid and vapor. H241: May cause flash fire or explosion. H319: Causes serious eye irritation.

H350: May cause cancer.

H370: Causes damage to organs.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating and lighting equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash face, hands and any exposed skin thoroughly after handling.

SDS_CA 2/34



Last revised date: 07/23/2024

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P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection.

-: These alone may be insufficient to remove static electricity.

Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.
P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction.

Storage: P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

with local, regional, national and international regulations.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol	No data available.	67-63-0	1 - 5%
Methanol	No data available.	67-56-1	1 - 5%
Ethanol	No data	64-17-5	1 - 5%

SDS_CA 3/34



Last revised date: 07/23/2024

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	available.		
Phenol	No data available.	108-95-2	0.1 - 1%
Methanaminium, N-[4-[bis[4- (dimethylamino)phenyl]methylene]-2,5- cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)	No data available.	548-62-9	0.1 - 1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4.	Fir	rst-	aid	me	ası	ıres

Description of first aid measures

General information: Get immediate medical advice/attention.

Inhalation: Get medical attention immediately. Provide fresh air,

warmth and rest, preferably in comfortable upright sitting

position.

Skin Contact: Wash off promptly and flush contaminated skin with water.

Promptly remove clothing if soaked through and flush skin

with water. Get medical attention immediately.

Eye contact: Get medical attention immediately. Continue to rinse. If in

eyes, hold eyes open, flood with water for at least 15

minutes and see a doctor.

SDS_CA 4/34



Last revised date: 07/23/2024

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Ingestion: If swallowed, rinse mouth with water (only if the person is

conscious). Call a physician or poison control center

immediately.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Symptoms may be delayed.

Hazards: May cause cancer. Causes damage to organs. Causes

serious eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Immediately call a POISON CENTER/doctor/...

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames,

heat and smoking. Ventilate. Use water to keep fire

exposed containers cool and disperse vapors.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide. Use

fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and

spread fire.

5/34 SDS_CA



Last revised date: 07/23/2024

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Special hazards arising from the substance or mixture:

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Exposure to fire can generate toxic fumes. Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures:

May form explosive or toxic mixtures with air. Static charges generated by emptying package in or near flammable vapor may cause flash fire. May form toxic or explosive vapors in presence of certain metals. The product is highly flammable and may be ignited even

after short contact with an ignition source.

Special protective equipment for firefighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. By heating and fire, toxic vapors/gases may be formed. Ventilate closed spaces before entering them. Move containers from fire area if you can do so without risk. Stop leak if you can do so without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

Accidental release measures: No data available.

6/34 SDS_CA



Version: 2.3 Last revised

Last revised date: 07/23/2024

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Methods and material for containment and cleaning up:

Prevent entry into waterways, sewer, basements or confined areas. Stop leak if possible without any risk. Sweep up and place in a clearly labeled container for chemical waste. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

Environmental Precautions:

Do not release into the environment. Environmental manager must be informed of all major spillages.

7. Handling and storage

Handling

Technical measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, on clothing. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations. Wash promptly with soap and water if skin becomes contaminated. Use

personal protective equipment as required.

Contact avoidance measures: No data available.

Storage

SDS_CA 7/34



Last revised date: 07/23/2024

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Safe storage conditions: Store in tightly closed original container in a dry, cool

and well-ventilated place. Store locked up. Follow rules

for flammable liquids.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values		Source
2-Propanol	TWA	200 ppm	492 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
	STEL	400 ppm	984 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
2-Propanol		400 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
		200 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
2-Propanol	STEL	400 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
	TWA	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
2-Propanol	15 MIN ACL	400 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	8 HR ACL	200 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended

SDS_CA 8/34



Last revised date: 07/23/2024

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2-Propanol	STEL	500 ppm	1,230 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
2-Propanol	STEL	400 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
	TWA	200 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
	TWA	400 ppm	985 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
2-Propanol	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended
2-Propanol	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
2-Propanol	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
2-Propanol	IDLH	2,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
2-Propanol	LEL		2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Methanol	TWA	200 ppm	262 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
	STEL	250 ppm	328 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Methanol	STEL	250 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
	TWA	200 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological

SDS_CA 9/34



Last revised date: 07/23/2024

Becton, Dickinson andCompany BD, Franklin Lakes, NJ 07417 USA www.bd.com

				Substances (Workers Compensation Board); as amended
Methanol		200 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
		250 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Methanol	STEL	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
	TWA	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Methanol	15 MIN ACL	250 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	8 HR ACL	200 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
Methanol	TWA	200 ppm	262 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
	STEL	250 ppm	328 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Methanol	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
Methanol	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	IDLH	6,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Methanol	LEL		6.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

SDS_CA 10/34



Last revised date: 07/23/2024

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Ethanol	TWA	1,000 ppm	1,880 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Ethanol	STEL	1,000 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Ethanol		1,000 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Ethanol	STEL	1,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Ethanol	8 HR ACL	1,000 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	15 MIN ACL	1,250 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
Ethanol	TWA	1,000 ppm		Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Ethanol	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
Ethanol	REL	1,000 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Ethanol	IDLH	3,300 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Ethanol	LEL		3.3 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

SDS_CA 11/34



Last revised date: 07/23/2024

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Phenol	TWA	5 ppm	19 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Phenol	TWA	5 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Phenol		5 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Phenol	TWA	5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Phenol	8 HR ACL	5 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	15 MIN ACL	7.5 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended

SDS_CA 12/34



Last revised date: 07/23/2024

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Phenol	TWA	5 ppm	19 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Phenol	TWA	5 ppm		US. ACGIH Threshold Limit Values, as amended
Phenol	REL	5 ppm	19 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Phenol	Ceil_Time	15.6 ppm	60 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Phenol	IDLH	250 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Phenol	LEL		1.8 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
2-Propanol	acetone Sampling time: End of shift at end of work week.	40 mg/l (Urine)	ACGIH BEI
Methanol	methanol Sampling time: End of shift.	15 mg/l (Urine)	ACGIH BEI
Phenol	Phenol with hydrolysis Sampling time: End of shift.	250 mg/g (Creatinine in urine)	ACGIH BEI

SDS_CA 13/34



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Appropriate Engineering Controls Adequate ventilation should be provided so that

exposure limits are not exceeded.

Version: 2.3

Last revised date: 07/23/2024

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Material: Use suitable protective gloves if risk of skin

contact.

Other: Wear appropriate clothing to prevent reasonably

probable skin contact.

Respiratory Protection: If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Do not eat, drink or smoke when using the product. Do

not get this material in contact with skin. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not handle until all safety precautions have been read and

understood. Avoid breathing dust/fume/gas/mist/vapors/spray.

SDS_CA 14/34





9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: According to product specification.

Odor: Characteristic

Odor Threshold: No data available.

Freezing point: No data available.

Boiling Point: No data available.

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:No data available.

Explosive limit - lower: No data available.

Flash Point: 109.9 °F/43.3 °C

Self-ignition: No data available.

Decomposition Temperature: No data available.

pH: No data available.

Viscosity

Dynamic viscosity: Not determined.

SDS_CA 15/34



Version: 2.3 Last revised

Last revised date: 07/23/2024

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Kinematic viscosity:	Not determined.
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Flow Time: No data available.

Solubility(ies)

Solubility in Water: Completely Soluble

Solubility (other): No data available.

Partition coefficient (n-

octanol/water):

No data available.

Vapor pressure: No data available.

Relative density: No data available.

Density: No data available.

Bulk density: No data available.

Relative vapor density: No data available.

Other information

Metal Corrosion: Non-corrosive per US Department of Transportation

testing protocol.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: No data available.

SDS_CA 16/34



Last revised date: 07/23/2024

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Possibility of hazardous

reactions:

Do not subject to grinding/shock/friction/. Contact

with acids and metals can lead to violent

decomposition.

Conditions to avoid: Heat, sparks, flames. Shocks and physical damage.

Avoid conditions which create dust. Thermal decomposition or combustion may liberate carbon

oxides and other toxic gases or vapors.

Incompatible Materials: Strong acids. Strong oxidizing agents. Peroxides.

Other metals or alloys.

Hazardous Decomposition

Products:

By fire, toxic gases may be formed (COx, NOx).

11. Toxicological information

General information: Known or suspected carcinogen for humans. Can cause internal organ

effects.

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: Irritating to eyes.

Ingestion: No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix, 4,000 mg/kg

Components:

2-Propanol No data available.
Methanol No data available.
Ethanol No data available.

Phenol LD 50, Mouse, 270 mg/kg

LD 50, Rat, 530 mg/kg, 2 = reliable with restrictions, Weight of evidence LD 50, Rat, 650 mg/kg, 2 = reliable with restrictions, Weight of evidence LD 50, Rat, 540 mg/kg, 2 = reliable with restrictions, Weight of evidence

SDS_CA 17/34





LD 50, Rat, 340 mg/kg, 2 = reliable with restrictions, Weight of evidence

Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Dermal
Product: ATEmix, 12,000 mg/kg

Components:

2-Propanol No data available. Methanol No data available.

Ethanol LD 50, Rabbit, 17,100 mg/kg, 4 = not assignable

Phenol LD 50, Rabbit, 850 mg/kg LD 50, Rat, 669 mg/kg

LD 50, Rat, 670 mg/kg No data available.

Methanaminium, N-[4-

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Inhalation

Product: ATEmix, 120 mg/l, Vapour

Components:

2-Propanol No data available.

Methanol No data available.

Ethanol No data available.

Phenol No data available.

Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Repeated dose toxicity

Product: No data available.

Components:

2-Propanol No data available.

Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol NOAEL Rabbit, Dermal, 18 d, 130 mg/kg, Experimental result, Key study

Dermal

LOAEL Rabbit, Dermal, 18 d, 260 mg/kg, Experimental result, Key study

Dermal

LOAEL Mouse, Male, Oral, 4.7 mg/l, Oral Experimental result, Not

SDS_CA 18/34



specified

No data available.

LOAEL Rat, Female, Male, Oral, 103 Weeks, 5,000 ppm(m), Oral

Experimental result, Weight of Evidence study

LOAEL Rat, Male, Oral, 10 - 13 Weeks, 5,000 ppm(m), Oral

Experimental result, Weight of Evidence study

Methanaminium, N-[4-

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Skin Corrosion/Irritation

Product: No data available.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol Corrosive, in vivo, Rabbit, 72 h, Experimental result, Supporting study

> Corrosive, in vivo, Rat, Experimental result, Supporting study Corrosive, In vitro, In vitro, Experimental result, Supporting study

Methanaminium, N-[4-No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylenel-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Serious Eye Damage/Eye Irritation

Product: Irritating to eyes.

Components:

2-Propanol No data available. Methanol No data available. Ethanol No data available. Phenol No data available. Methanaminium, N-[4-No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Respiratory or Skin Sensitization

Product: No data available.

Components:

2-Propanol Skin sensitization:, in vivo, Guinea pig, Non sensitising Methanol Skin sensitization:, in vivo, Guinea pig, Non sensitising

SDS_CA 19/34





Ethanol Based on available data, the classification criteria are not met.

Skin sensitization:, in vivo, Guinea pig, Non sensitising

Phenol Skin sensitization:, in vivo, Mouse, Non sensitising

No data available.

Skin sensitization:, Human, Non sensitising

Methanaminium, N-[4-

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Carcinogenicity

Product: May cause cancer.

Components:

2-Propanol No data available.

Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylenel-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Methanaminium, N-[4- Overall evaluation: 2B. Possibly carcinogenic to humans.

[bis[4-

(dimethylamino)phenyl]met hylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended No carcinogens present or none present in regulated quantities

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended No carcinogens present or none present in regulated quantities

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

SDS_CA 20/34

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Last revised date: 07/23/2024



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No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

In vivo

Product: No data available.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Reproductive toxicity

Product: No data available.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Specific Target Organ Toxicity - Single Exposure

SDS_CA 21/34



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Product: Causes damage to organs.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol Based on available data, the classification criteria are not met.

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Aspiration Hazard

Product: No data available.

Components:

2-Propanol No data available.

Methanol No data available.

Ethanol No data available.

Phenol No data available.

Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Information on health hazards

Other hazards

Product: No data available.

SDS_CA 22/34



Last revised date: 07/23/2024

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12. Ecological information

General information: Harmful to aquatic life with long lasting effects.

Ecotoxicity:

Toxicity to Aquatic Plants

Product: Expected to be harmful to aquatic organisms. May cause long-term

adverse effects in the environment.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol EC10, Green algae (Chlorella vulgaris), 72 h, 11.5 mg/l

EC 50, Green algae (Chlorella vulgaris), 72 h, 275 mg/l

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Toxicity to microorganisms

Product: No data available.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol LC 50, Turbellarian, flatworm (Dugesia tigrina), 96 h, > 100 mg/l,

Mortality

Phenol No data available. Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Acute hazards to the aquatic environment:

Fish

Product: Expected to be harmful to aquatic organisms.

Components:

2-Propanol No data available. Methanol No data available.

Ethanol LC 50, Fathead Minnow, 96 h, 14,200 mg/l

SDS_CA 23/34



Last revised date: 07/23/2024

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LC 50, Fathead Minnow, 96 h, 15,300 mg/l

LC 50, Oncorhynchus mykiss, 24 h, 11,200 mg/lflow-through,

Experimental result, Supporting study

Phenol LC 50, Danio rerio, 96 h, 86.4 mg/lStatic, Experimental result, Supporting

study

LC 50, Pimephales promelas, 96 h, 67.5 mg/lflow-through, Experimental

result, Key study

Methanaminium, N-[4-

[bis[4-

LC 50, Medaka, high-eyes (Oryzias latipes), 48 h, 0.1 mg/lStatic,

Mortality

(dimethylamino)phenyl] methylene]-2,5-

cvclohexadien-1ylidene]-N-methyl-, chloride (1:1)

LC 50, Medaka, high-eyes (Oryzias latipes), 24 h, 0.2 mg/lStatic,

Mortality

Aquatic Invertebrates

Product:

Expected to be harmful to aquatic organisms.

Components: 2-Propanol

No data available. No data available.

Methanol **Fthanol**

LC 50. Water flea (Ceriodaphnia dubia), 48 h, 5,012 mg/l

LC 50, Grass shrimp, freshwater prawn (Palaemonetes kadiakensis), 18

h, 10,100 mg/l

LC 50, Grass shrimp, freshwater prawn (Palaemonetes kadiakensis), 96

h, > 250 mg/IStatic, Mortality

LC 50, Nitokra spinipes, 96 h, 37 mg/lStatic, experimental result Phenol

Experimental result, Supporting study

EC 50, Daphnia magna, 24 h, 21 mg/lStatic, experimental result

Experimental result, Not specified

LC 50, Brachionus rubens, 24 h, 600 mg/l, experimental result

Experimental result, Not specified

LC 50, Gammarus pulex, 96 h, 69 mg/lflow-through, experimental result

Experimental result, Not specified

LC 50, Artemia salina, 24 h, 157 mg/lStatic, experimental result

Experimental result, Not specified

Methanaminium, N-[4-

[bis[4-

(dimethylamino)phenyl] methylene]-2,5cvclohexadien-1ylidene]-N-methyl-, chloride (1:1)

No data available.

Chronic hazards to the aquatic environment:

Fish

Product: Expected to be harmful to aquatic organisms. May cause long-term

adverse effects in the environment.

Components:

2-Propanol No data available.

SDS CA 24/34





Methanol No data available. Ethanol No data available.

Phenol NOAEL, Pimephales promelas, 0.75 mg/l, experimental result

Experimental result, Not specified

NOAEL, Cyprinus carpio, 0.11 mg/l, semi-static, experimental result

Experimental result, Supporting study

LC 10, Oncorhynchus mykiss, 0.0017 mg/l, experimental result

Experimental result, Not specified

LC 50, Carassius auratus, 0.33 mg/l, experimental result Experimental

result. Not specified

No data available.

LOAEL, Oncorhynchus mykiss, 0.2 mg/l, experimental result

Experimental result, Not specified

Methanaminium, N-[4-[bis[4-

(dimethylamino)phenyl] methylene]-2,5cyclohexadien-1ylidene]-N-methyl-, chloride (1:1)

Aquatic Invertebrates

Product: Expected to be harmful to aquatic organisms. May cause long-term

adverse effects in the environment.

Components:

2-Propanol No data available.
Methanol No data available.

Ethanol EC10, Water flea (Daphnia magna), 10 d, 454 mg/l

NOEC, Water flea (Daphnia magna), 10 d, 9.6 mg/l

Phenol EC 10, Daphnia magna, 0.05 mg/l, semi-static, experimental result

Experimental result, Supporting study

NOAEL, Daphnia magna, 0.16 mg/l, semi-static, experimental result

Experimental result, Key study

NOAEL, Daphnia magna, 0.5 mg/l, semi-static, experimental result

Experimental result, Not specified

NOAEL, Daphnia magna, < 0.1 mg/l, semi-static, experimental result

Experimental result, Supporting study

EC 10, Daphnia magna, 0.46 mg/l, semi-static, experimental result

Experimental result, Key study

No data available.

Methanaminium, N-[4-[bis[4-

(dimethylamino)phenyl] methylene]-2,5cyclohexadien-1ylidene]-N-methyl-, chloride (1:1)

Persistence and Degradability

Biodegradation

SDS CA 25/34





Components:

Product: No data available.

2-Propanol 53 %, 5 d, Experimental result, Key study Detected in water.

Methanol

84 %, Experimental result, Key study Detected in water.

46.3 %, 5 d, Experimental result, Supporting study Soil

69 %, Experimental result, Key study Detected in water.

71.5 %, 5 d, Experimental result, Key study Detected in water.

82.7 %, 5 d, Experimental result, Key study Detected in water.

Ethanol Readily biodegradable

13.6 %, 5 d, Soil Read-across from supporting substance (structural

analogue or surrogate), Supporting study

89 %, 14 d, Detected in water. Experimental result, Supporting study 53.4 %, 5 d, Soil Read-across from supporting substance (structural

analogue or surrogate), Supporting study

46.3 %, 5 d, Soil Read-across from supporting substance (structural

50 %, 200 h, Sediment Experimental result, Not specified

3.6 %, 28 d, Experimental result, Key study Detected in water.

analogue or surrogate), Supporting study

Phenol Methanaminium, N-[4-

rici-ra

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

BOD/COD Ratio

Product: No data available.

Components:

2-Propanol No data available.

Methanol No data available.

Ethanol No data available.

Phenol No data available.

Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

2-Propanol No data available.

Methanol Green algae (Chlorella fusca vacuolata), 28,400, Static

Ethanol Potential to bioaccumulate is low.

SDS CA 26/34



Last revised date: 07/23/2024

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Phenol Danio rerio, 17.5, Aquatic sediment Experimental result, Key study

Pimephales promelas, 3.5, Aquatic sediment Estimated by calculation,

Supporting study

Oncorhynchus mykiss, 8.2, Aquatic sediment Estimated by calculation,

Not specified

Carassius auratus, 1.9, Aquatic sediment Experimental result, Not

specified

Scenedesmus quadricauda, 3.5, Aquatic sediment Experimental result,

Not specified No data available.

Methanaminium, N-[4-

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

2-Propanol No data available.

Methanol -0.77

Ethanol No data available.
Phenol No data available.
Methanaminium, N-[4- No data available.

[bis[4-

(dimethylamino)phenyl]m

ethylene]-2,5-

cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1)

Mobility in soil:

Product: No data available.

Components:

2-Propanol No data available.

Methanol No data available.

Ethanol soil - Very mobile liquid
Phenol No data available.

Methanaminium, N-[4-[bis[4- No data available.

(dimethylamino)phenyl]meth ylene]-2,5-cyclohexadien-1ylidene]-N-methyl-, chloride

(1:1)

Results of PBT and vPvB assessment:

Product: No data available.

Components:

2-Propanol No data available.

Methanol No data available.

SDS CA 27/34



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07417 USA www.bd.com Version: 2.3

Last revised date: 07/23/2024

Ethanol Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling

vPvB (very persistent/very bioaccummulative) criteria

Phenol No data available. Methanaminium, N-[4-[bis[4- No data available.

(dimethylamino)phenyl]meth ylene]-2,5-cyclohexadien-1ylidene]-N-methyl-, chloride (1:1)

Other adverse effects:

Other hazards

Product: No data available.

13. Disposal considerations

General information: This material and its container must be disposed of as

hazardous waste.

Disposal methods: Dispose of waste at a facility with special permission to dispose

industrial wastes subject to special control. Waste should be

accompanied by a manifest for the industrial wastes.

Contaminated

Packaging:

Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

14. Transport information

IATA

SDS_CA 28/34



Last revised date: 07/23/2024

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UN number or ID number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9

Label(s): 9MI (Miscellaneous)

Packing Group:

Passenger and cargo aircraft:

Limited quantity None.

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

Special precautions for user:

PG

Passenger and cargo aircraft: Forbidden.

Cargo aircraft only: Forbidden.

IMDG

UN number or ID number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9

Label(s): 9

SDS_CA 29/34



Last revised date: 07/23/2024

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EmS No.: F-A, S-P

Packing Group:

Limited quantity None.

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

Special precautions for user:

PG

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

SDS_CA 30/34





National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with **Additional Reporting Requirements**

Chemical Identity

Isopropyl alcohol

METHANOL

Ethanol

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

Chemical Identity

Isopropyl alcohol

METHANOL

Greenhouse Gases

Not Regulated

Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements

Not Regulated

Controlled Drugs and Substances Act

CA CDSI Not Regulated CA CDSII Not Regulated CA CDSIII Not Regulated **CA CDSIV** Not Regulated **CA CDSV** Not Regulated **CA CDSVII**

31/34 SDS_CA

Not Regulated





CA CDSVIII Not Regulated

Precursor Control Regulations

Not Regulated

16.Other information, including date of preparation or last revision

Date of first report version: 04/17/2014

Generation date: 07/23/2024

Version #: 2.3

Abbreviations and acronyms:

ACGIH: US. ACGIH Threshold Limit Values, as amended

CAD AB OEL: Canada. Alberta OELs (Occupational Health & Safety Code, Schedule

1, Table 2), as amended

CAD BC OEL: Canada. British Columbia OELs: Table of Exposure Limits for Chemical

Biological Substances (Workers Compensation Board); as amended

CAD MB OEL: Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And

Health Act), as amended

CAD ON OEL: Canada. Ontario OELs. (Control of Exposure to Biological or Chemical

Agents), as amended

CAD SK OEL: Canada. Saskatchewan OELs (Occupational Health and Safety

Regulations, 1996, Table 21), as amended

NIOSH IDLH: US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values,

as amended

NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended OEL (QUE): Canada. Quebec OELs. (Ministry of Labor - Regulation respecting

occupational health and safety), as amended

Short Term Exposure Limit (STEL): ACGIH / STEL: Time Weighted Average (TWA): ACGIH / TWA: CAD AB OEL / STEL: Short Term Exposure Limit (STEL): Time Weighted Average (TWA): CAD AB OEL / TWA: CAD BC OEL / TWA: Time Weighted Average (TWA): CAD BC OEL / STEL: Short Term Exposure Limit (STEL): Time Weighted Average (TWA): CAD MB OEL / TWA: CAD MB OEL / STEL: Short Term Exposure Limit (STEL): CAD ON OEL / STEL: Short Term Exposure Limit (STEL): CAD ON OEL / TWA: Time Weighted Average (TWA):

SDS_CA 32/34



Last revised date: 07/23/2024

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CAD SK OEL / 8 HR ACL: 8 hour average contamination limit: CAD SK OEL / 15 MIN ACL: 15 minute average contamination limit:

NIOSH IDLH / LEL: Lower Explosive Limit (LEL):

NIOSH IDLH / IDLH: Immediately dangerous to life or health (IDLH) concentration:

NIOSH/GUIDE / Ceil Time: Ceiling Limit Value and Time Period (if specified):

NIOSH/GUIDE / REL:
NIOSH/GUIDE / STEL:
OEL (QUE) / TWA:
OEL (QUE) / STEL:
Short Term Exposure Limit (STEL):
Time Weighted Average (TWA):
Short Term Exposure Limit (STEL):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -Hazardous Materials Identification System: IARC - International Agency for Research on Cancer: IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Source of information: European Chemicals Agency (ECHA): Information on Chemicals.

Further Information: No data available.

SDS CA 33/34



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Disclaimer:

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34/34 SDS_CA



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SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0333075BJAA	GRAM DECOLORIZER 250ML	No data available

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory Chemicals Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152

USA

Telephone: 1 844 823 5433 Fax: not available

Contact Person: Business Unit Product Stewardship Team

E-mail: IDS_SDS@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2
Static-accumulating flammable liquid Category 1

SDS_CA 1/24





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Health Hazards

Serious Eye Damage/Eye Irritation
Specific Target Organ Toxicity Single Exposure

Category 2A Category 3

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H225: Highly flammable liquid and vapor.

FK: Static accumulating flammable liquid can become electrostatically

charged even in bonded and grounded equipment.

Spark: Sparks may ignite liquid and vapor. H241: May cause flash fire or explosion.

H319: Causes serious eve irritation.

H336: May cause drowsiness or dizziness.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating and lighting equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ eye protection/ face protection. -: These alone may be insufficient to remove static electricity.

Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable

for breathing.

P312: Call a POISON CENTER or doctor/ physician if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SDS CA 2/24





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P337+P313: If eye irritation persists: Get medical advice/attention.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

with local, regional, national and international regulations.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol	No data available.	67-63-0	60 - 80%
2-Propanone	No data available.	67-64-1	10 - 30%
	**01- 211947133 0-49-0062		

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

SDS_CA 3/24

^{**}See Section 15 for HMIRA Registration information



Last revised date: 07/23/2024

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4. First-aid measu	res
--------------------	-----

Description of first aid measures

General information: Get medical attention if symptoms occur. Causes serious

eye irritation. May cause drowsiness or dizziness.

Inhalation: Provide fresh air, warmth and rest, preferably in

comfortable upright sitting position. Get medical attention if

any discomfort continues.

Skin Contact: Wash contact areas with soap and water. Remove

contaminated clothing. Launder contaminated clothing

before reuse.

Eye contact: Immediately flush with plenty of water for at least 15

minutes. If easy to do, remove contact lenses. Get medical

attention.

Ingestion: If swallowed, rinse mouth with water (only if the person is

conscious). DO NOT induce vomiting. Get medical attention

immediately.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Symptoms may be delayed.

SDS_CA 4/24



Last revised date: 07/23/2024

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Hazards: Causes serious eye irritation. May cause drowsiness or

dizziness.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames,

heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors. In case

of fire: Evacuate area.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide. Use

fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and

spread fire.

Special hazards arising from the

substance or mixture:

Fire or excessive heat may produce hazardous

decomposition products.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: May explode when heated or when exposed to flames

or sparks.

SDS_CA 5/24



Version: 1.3 Last revised

Last revised date: 07/23/2024

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Special protective equipment for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

Accidental release measures: No data available.

Methods and material for containment and cleaning up:

All equipment used when handling the product must be grounded. Eliminate sources of ignition. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling

Technical measures: No data available.

SDS_CA 6/24



Last revised date: 07/23/2024

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Local/Total ventilation: No data available.

Safe handling advice: When using do not eat, drink or smoke. Use personal

protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Read and follow manufacturer's recommendations. Use spark-proof tools and

explosion-proof equipment.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in a cool, dry place. Keep container tightly

closed. Keep from contact with oxidizing materials.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values		Source
2-Propanol	TWA	200 ppm	492 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
	STEL	400 ppm	984 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
2-Propanol		400 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
		200 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

SDS_CA 7/24



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2-Propanol	STEL	400 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
	TWA	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
2-Propanol	15 MIN ACL	400 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	8 HR ACL	200 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
2-Propanol	STEL	500 ppm	1,230 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
2-Propanol	STEL	400 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
	TWA	200 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
	TWA	400 ppm	985 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
2-Propanol	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended
2-Propanol	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
2-Propanol	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
2-Propanol	IDLH	2,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
2-Propanol	LEL		2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

SDS_CA 8/24



Last revised date: 07/23/2024

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2-Propanone	TWA	500 ppm	1,200 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
	STEL	750 ppm	1,800 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
2-Propanone	TWA	250 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
	STEL	500 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
2-Propanone		500 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
		250 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
2-Propanone	15 MIN ACL	750 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	8 HR ACL	500 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
2-Propanone	TWA	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
	STEL	500 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
2-Propanone	TWA	250 ppm		Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
	STEL	500 ppm		Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
2-Propanone	TWA	250 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	500 ppm		US. ACGIH Threshold Limit Values, as amended

SDS_CA 9/24



Last revised date: 07/23/2024

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2-Propanone	REL	250 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
2-Propanone	LEL		2.5 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
2-Propanone	IDLH	2,500 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
2-Propanol	acetone Sampling time: End of shift at end of work week.	40 mg/l (Urine)	ACGIH BEI
2-Propanone	acetone Sampling time: End of shift.	25 mg/l (Urine)	ACGIH BEI

Appropriate Engineering Controls

Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

SDS_CA 10/24



Version: 1.3 Last revised

Last revised date: 07/23/2024

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Hand Protection: Material: Chemical resistant gloves

Additional Information: Wash hands after

contact.Material: Suitable gloves can be recommended

by the glove supplier.

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection: If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: According to product specification.

Odor: Characteristic

Odor Threshold: No data available.

Freezing point: No data available.

Boiling Point: 133.0 - 180 °F/56.1 - 82 °C

SDS_CA 11/24



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Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available.

Explosive limit - lower: No data available.

Flash Point: 19.9 °F/-6.7 °C

Self-ignition: No data available.

Decomposition Temperature: No data available.

pH: No data available.

Viscosity

Dynamic viscosity: Not determined.

Kinematic viscosity: Not determined.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Completely Soluble

Solubility (other): No data available.

Partition coefficient (n-

octanol/water):

No data available.

Vapor pressure: No data available.

Relative density: No data available.

Density: No data available.

Bulk density: No data available.

SDS_CA 12/24



Version: 1.3
Last revised

Last revised date: 07/23/2024

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Relative vapor density: No data available.

Other information

Metal Corrosion: Non-corrosive per US Department of Transportation

testing protocol.

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Material is stable under normal conditions.

Conditions to avoid: Avoid exposure to high temperatures or direct

sunlight. Flammable/combustible - Keep away from oxidizers, heat and flames. Keep away from sources

of ignition - No smoking.

Incompatible Materials: Water reactive material.

Hazardous Decomposition

Products:

Stable; however, may decompose if heated.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

SDS_CA 13/24



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Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix, 12,000 mg/kg

Components:

2-Propanol No data available.

2-Propanone LD 50, Mouse, 5.2 g/kg

LD 50, Rat, 5,800 mg/kg LD 50, Rabbit, 5,340 mg/kg LD 50, Mouse, 3,000 mg/kg LD 50, Rat, 9,800 mg/kg

Dermal

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Inhalation

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Repeated dose toxicity

Product: No data available.

Components:

2-Propanol No data available.

2-Propanone NOAEL Rat, Male, Inhalation, 2 - 8 Weeks, 19,000 ppm(m), Experimental

result, Weight of Evidence study Inhalation

Skin Corrosion/Irritation

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

2-Propanol No data available.

2-Propanone Irritating, Exposure for 15 minutes to 1660 ppm causes irritation of eyes

SDS_CA 14/24



Last revised date: 07/23/2024

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Respiratory or Skin Sensitization

Product: No data available.

Components:

2-Propanol Skin sensitization:, in vivo, Guinea pig, Non sensitising
2-Propanone Skin sensitization:, in vivo, Guinea pig, Non sensitising
Skin sensitization:, in vivo, Mouse, Non sensitising

Carcinogenicity

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

No carcinogens present or none present in regulated quantities

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

No carcinogens present or none present in regulated quantities

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

In vivo

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Reproductive toxicity

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

SDS CA 15/24



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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

Aspiration Hazard

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Toxicity to microorganisms

Product: No data available.

Components:

2-Propanol No data available.

2-Propanone LC 50, Diatom (Nitzschia linearis), 5 d, 11.493 - 11.727 mg/l, Mortality

LC 50, Turbellarian, flatworm (Dugesia tigrina), 96 h, > 100 mg/l,

Mortality

Acute hazards to the aquatic environment:

SDS_CA 16/24



Last revised date: 07/23/2024

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Fish

Product: No data available.

Components:

2-Propanol No data available.

2-Propanone LC 50, Pimephales promelas, 96 h, 7,160 mg/lAcute toxicity

NOAEL, Pimephales promelas, 48 h, 12,000 mg/lStatic, Experimental

result, Supporting study

LC 50, Fathead minnow (Pimephales promelas), 168 h, 6,705 - 7,650

mg/IFlow through, Mortality

LC 50, Carp (Leuciscus idus melanotus), 48 h, 11,300 mg/l, Mortality LC 50, Oryzias latipes, 48 h, 14,300 mg/lStatic, Experimental result,

Supporting study

Aquatic Invertebrates

Product: No data available.

Components:

2-Propanol No data available.

2-Propanone LC 50, Oligochaete, worm (Lumbriculus variegatus), 96 h, > 100

mg/IStatic, Mortality

LC 50, Water flea (Daphnia magna), 96 h, > 100 mg/lStatic, Mortality LC 50, Asiatic clam (Corbicula manilensis), 96 h, > 20,000 mg/lStatic,

Mortality

EC 50, Water flea (Daphnia magna), 48 h, 10,294 - 17,704 mg/lStatic,

Intoxication

LC 50, Ramshorn snail (Helisoma trivolvis), 96 h, > 100 mg/lStatic,

Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Aquatic Invertebrates

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

2-Propanol 53 %, 5 d, Experimental result, Key study Detected in water.

SDS_CA 17/24





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2-Propanone 76 %, Experimental result, Supporting study Detected in water.

76 %, Experimental result, Supporting study Detected in water. 75 %, 4 h, Experimental result, Not specified Detected in water. 100 %, 4 d, Experimental result, Key study Detected in water. 25.5 - 36.7 %, 281 d, Experimental result, Key study Soil

BOD/COD Ratio

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

2-Propanol No data available.

2-Propanone -0.24

Mobility in soil:

Product: No data available.

Components:

2-Propanol No data available. 2-Propanone No data available.

Results of PBT and vPvB assessment:

Product: No data available.

Components:

2-Propanol2-PropanoneNo data available.No data available.

Other adverse effects:

Other hazards

Product: No data available.

SDS_CA 18/24



Version: 1.3

Last revised

Last revised date: 07/23/2024

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13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements. This product is highly flammable. Don't use fire to

cut empty container after use.

Disposal methods: Dispose of waste at an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Contaminated Packaging:

Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

14. Transport information

IATA

UN number or ID number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9

Label(s): 9MI (Miscellaneous)

Packing Group:

Passenger and cargo aircraft:

SDS_CA 19/24



Last revised date: 07/23/2024

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Limited quantity None.

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

Special precautions for user:

PG

Passenger and cargo aircraft: Forbidden.

Cargo aircraft only: Forbidden.

IMDG

UN number or ID number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9

Label(s): 9

EmS No.: F-A, S-P

Packing Group:

Limited quantity None.

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

SDS_CA 20/24





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Chemical Identity

Special precautions for user: PG Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied. 15. Regulatory information **Canada Federal Regulations List of Toxic Substances (CEPA, Schedule 1)** Not Regulated Export Control List (CEPA 1999, Schedule 3) Not Regulated **National Pollutant Release Inventory (NPRI)** Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with **Additional Reporting Requirements Chemical Identity** Isopropyl alcohol Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

SDS_CA 21/24



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Isopropyl alcohol

VOLATILE ORGANIC COMPOUNDS

Greenhouse Gases

Not Regulated

Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements

Not Regulated

Controlled Drugs and Substances Act

CA CDSII Not Regulated
CA CDSIII Not Regulated
CA CDSIII Not Regulated
CA CDSIV Not Regulated
CA CDSV Not Regulated
CA CDSVI Not Regulated
CA CDSVII Not Regulated
CA CDSVIII Not Regulated

Precursor Control Regulations

Chemical Identity

ACETONE

SDS_CA 22/24



Last revised date: 07/23/2024

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16.Other information, including date of preparation or last revision

Date of first report version: 06/23/2017

Generation date: 07/23/2024

Version #: 1.3

Abbreviations and acronyms:

ACGIH: US. ACGIH Threshold Limit Values, as amended

CAD AB OEL: Canada. Alberta OELs (Occupational Health & Safety Code, Schedule

1, Table 2), as amended

CAD BC OEL: Canada. British Columbia OELs: Table of Exposure Limits for Chemical

Biological Substances (Workers Compensation Board); as amended

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And CAD MB OEL:

Health Act), as amended

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical CAD ON OEL:

Agents), as amended

CAD SK OEL: Canada. Saskatchewan OELs (Occupational Health and Safety

Regulations, 1996, Table 21), as amended

US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, NIOSH IDLH:

as amended

NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended Canada. Quebec OELs. (Ministry of Labor - Regulation respecting OEL (QUE):

occupational health and safety), as amended

Short Term Exposure Limit (STEL): ACGIH / STEL: Time Weighted Average (TWA): ACGIH / TWA: Short Term Exposure Limit (STEL): CAD AB OEL / STEL: CAD AB OEL / TWA: Time Weighted Average (TWA): CAD BC OEL / TWA: Time Weighted Average (TWA): CAD BC OEL / STEL: Short Term Exposure Limit (STEL): CAD MB OEL / TWA: Time Weighted Average (TWA): CAD MB OEL / STEL: Short Term Exposure Limit (STEL): CAD ON OEL / STEL: Short Term Exposure Limit (STEL): Time Weighted Average (TWA): CAD ON OEL / TWA: 8 hour average contamination limit: CAD SK OEL / 8 HR ACL: CAD SK OEL / 15 MIN ACL: 15 minute average contamination limit:

NIOSH IDLH / LEL: Lower Explosive Limit (LEL):

NIOSH IDLH / IDLH: Immediately dangerous to life or health (IDLH) concentration:

Recommended exposure limit (REL): NIOSH/GUIDE / REL: Short Term Exposure Limit (STEL): NIOSH/GUIDE / STEL: OEL (QUE) / TWA: Time Weighted Average (TWA): OEL (QUE) / STEL: Short Term Exposure Limit (STEL):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for

SDS CA 23/24





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Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent. Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: No data available.

Disclaimer: Disclaimer:

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SDS CA 24/24



Last revised date: 07/23/2024

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SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0333275BJAA	Gram Safranin	No data available

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory Chemicals **Recommended restrictions:** None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152

USA

Telephone: 1 844 823 5433 Fax: not available

Contact Person: Business Unit Product Stewardship Team

E-mail: IDS_SDS@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3
Static-accumulating flammable liquid Category 1

SDS_CA 1/24



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Health Hazards

Specific Target Organ Toxicity - Single Exposure

Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H226: Flammable liquid and vapor.

FK: Static accumulating flammable liquid can become electrostatically

charged even in bonded and grounded equipment.

Spark: Sparks may ignite liquid and vapor. H241: May cause flash fire or explosion.

H370: Causes damage to organs.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating and lighting equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/ eye protection/ face protection.
-: These alone may be insufficient to remove static electricity.

Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor. P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction.

Storage: P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

SDS_CA 2/24



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with local, regional, national and international regulations.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethanol	No data available.	64-17-5	10 - 30%
Methanol	No data available.	67-56-1	0.1 - 1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information: Get medical attention if symptoms occur.

Inhalation: Provide fresh air, warmth and rest, preferably in

comfortable upright sitting position.

SDS_CA 3/24



Last revised date: 07/23/2024

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Skin Contact: Wash contact areas with soap and water. Remove

contaminated clothing. Launder contaminated clothing

before reuse.

Eye contact: Immediately flush with plenty of water for at least 15

minutes. If easy to do, remove contact lenses.

Ingestion: Call a physician or poison control center immediately. Only

induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Symptoms may be delayed.

Hazards: Causes damage to organs.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames,

heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool. In case of fire: Evacuate

area.

Suitable (and unsuitable) extinguishing media

SDS_CA 4/24



Version: 2.4 Last revised date: 07/23/2024

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Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide. Use

fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and

spread fire.

Special hazards arising from the

substance or mixture:

Fire or excessive heat may produce hazardous

decomposition products.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: May travel considerable distance to source of ignition

and flash back. May explode when heated or when

exposed to flames or sparks.

Special protective equipment for fire-

fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield,

gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during

removal of spillages in a confined area.

Accidental release measures: No data available.

SDS_CA 5/24



BD.

Last revised date: 07/23/2024

Version: 2.4

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Methods and material for containment and cleaning up:

All equipment used when handling the product must be grounded. Eliminate sources of ignition. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling

Technical measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: When using do not eat, drink or smoke. Read and

follow manufacturer's recommendations. Use personal protective equipment as required. Use spark-proof

tools and explosion-proof equipment.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed. Keep in a cool,

SDS_CA 6/24





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ventilated location far from heat source and flame

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values		Source
Ethanol	TWA	1,000 ppm	1,880 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Ethanol	STEL	1,000 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Ethanol		1,000 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Ethanol	STEL	1,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Ethanol	8 HR ACL	1,000 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	15 MIN ACL	1,250 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended

SDS_CA 7/24



Last revised date: 07/23/2024

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Ethanol	TWA	1,000 ppm		Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Ethanol	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
Ethanol	REL	1,000 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Ethanol	IDLH	3,300 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Ethanol	LEL		3.3 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Methanol	TWA	200 ppm	262 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
	STEL	250 ppm	328 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Methanol	STEL	250 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
	TWA	200 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Methanol		200 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
		250 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Methanol	STEL	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
	TWA	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Methanol	15 MIN ACL	250 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	8 HR ACL	200 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table

SDS_CA 8/24



Last revised date: 07/23/2024

Becton, Dickinson andCompany BD, Franklin Lakes, NJ 07417 USA www.bd.com

				21), as amended
Methanol	TWA	200 ppm	262 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
	STEL	250 ppm	328 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Methanol	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
Methanol	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	IDLH	6,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Methanol	LEL		6.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
Methanol	methanol Sampling time: End of shift.	15 mg/l (Urine)	ACGIH BEI

SDS_CA 9/24



Becton, Dickinson

Version: 2.4 Last revised date: 07/23/2024

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ventilation should be provided so that exposure limits

are not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Material: Chemical resistant gloves

Additional Information: Wash hands after

contact.Material: Suitable gloves can be recommended

by the glove supplier.

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection: If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid

SDS_CA 10/24





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Form: liquid

Color: According to product specification.

Odor: Characteristic

Odor Threshold: No data available.

Freezing point: No data available.

Boiling Point: 174 °F/79 °C

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:No data available.

Explosive limit - lower: No data available.

Flash Point: 102.0 °F/38.9 °C

Self-ignition: No data available.

Decomposition Temperature: No data available.

pH: No data available.

Viscosity

Dynamic viscosity: Not determined.

Kinematic viscosity: Not determined.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Completely Soluble

Solubility (other): No data available.

SDS_CA 11/24



Version: 2.4 Last revised date: 07/23/2024

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Partition coefficient (n-

octanol/water):

No data available.

No data available. Vapor pressure:

Relative density: No data available.

Density: No data available.

Bulk density: No data available.

Relative vapor density: No data available.

Other information

Metal Corrosion: Non-corrosive per US Department of Transportation

testing protocol.

10. Stability and reactivity

Material is stable under normal conditions. Reactivity:

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Stable

Conditions to avoid: Avoid exposure to high temperatures or direct

> sunlight. Flammable/combustible - Keep away from oxidizers, heat and flames. Keep away from sources

of ignition - No smoking.

12/24 SDS_CA



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Incompatible Materials: Water reactive material.

Hazardous Decomposition

Products:

Stable; however, may decompose if heated.

11. Toxicological information

General information: Can cause internal organ effects.

Information on likely routes of exposure

Inhalation: Limited inhalation hazard at normal work temperatures.

Skin Contact: Negligible irritation to skin at ambient temperatures.

Eye contact: No data available.

Ingestion: No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix, 10,000 mg/kg

Components:

Ethanol No data available. Methanol No data available.

Dermal

Product: ATEmix, 30,000 mg/kg

Components:

Ethanol LD 50, Rabbit, 17,100 mg/kg, 4 = not assignable

Methanol No data available.

Inhalation

Product: ATEmix, 300 mg/l, Vapour

Components:

Ethanol No data available. Methanol No data available.

Repeated dose toxicity

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

Methanol No data available.

Skin Corrosion/Irritation

SDS_CA 13/24





Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

Methanol No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Ethanol No data available. Methanol No data available.

Respiratory or Skin Sensitization

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

Skin sensitization:, in vivo, Guinea pig, Non sensitising

Methanol Skin sensitization:, in vivo, Guinea pig, Non sensitising

Carcinogenicity

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

Methanol No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

No carcinogens present or none present in regulated quantities

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

No carcinogens present or none present in regulated quantities

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

SDS_CA 14/24





Methanol No data available.

In vivo

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

Methanol No data available.

Reproductive toxicity

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

Methanol No data available.

Specific Target Organ Toxicity - Single Exposure

Product: Causes damage to organs.

Components:

Ethanol Based on available data, the classification criteria are not met.

Methanol No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Ethanol Based on available data, the classification criteria are not met.

Methanol No data available.

Aspiration Hazard

Product: No data available.

Components:

Ethanol No data available.

Methanol No data available.

Information on health hazards

Other hazards

Product: No data available.

SDS_CA 15/24



Last revised date: 07/23/2024

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12. Ecological information

General information: This material has not been tested for environmental effects.

Ecotoxicity:

Toxicity to Aquatic Plants

Product: No data on possible environmental effects have been found.

Components:

Ethanol EC10, Green algae (Chlorella vulgaris), 72 h, 11.5 mg/l

EC 50, Green algae (Chlorella vulgaris), 72 h, 275 mg/l

Methanol No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Ethanol LC 50, Turbellarian, flatworm (Dugesia tigrina), 96 h, > 100 mg/l,

Mortality

Methanol No data available.

Acute hazards to the aquatic environment:

Fish

Product: No data on possible environmental effects have been found.

Components:

Ethanol LC 50, Fathead Minnow, 96 h, 14,200 mg/l

LC 50, Fathead Minnow, 96 h, 15,300 mg/l

LC 50, Oncorhynchus mykiss, 24 h, 11,200 mg/lflow-through,

Experimental result, Supporting study

Methanol No data available.

Aquatic Invertebrates

Product: No data on possible environmental effects have been found.

Components:

Ethanol LC 50, Water flea (Ceriodaphnia dubia), 48 h, 5,012 mg/l

LC 50, Grass shrimp, freshwater prawn (Palaemonetes kadiakensis), 18

h, 10,100 mg/l

LC 50, Grass shrimp, freshwater prawn (Palaemonetes kadiakensis), 96

h, > 250 mg/IStatic, Mortality

Methanol No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data on possible environmental effects have been found.

Components:

Ethanol No data available.

SDS CA 16/24





Methanol No data available.

Aquatic Invertebrates

Product: No data on possible environmental effects have been found.

Components:

Ethanol EC10, Water flea (Daphnia magna), 10 d, 454 mg/l

NOEC, Water flea (Daphnia magna), 10 d, 9.6 mg/l

Methanol No data available.

Persistence and Degradability

Biodegradation

Product: Expected to be readily biodegradable.

Components:

Ethanol Readily biodegradable

13.6 %, 5 d, Soil Read-across from supporting substance (structural

analogue or surrogate), Supporting study

89 %, 14 d, Detected in water. Experimental result, Supporting study 53.4 %, 5 d, Soil Read-across from supporting substance (structural

analogue or surrogate), Supporting study

46.3 %, 5 d, Soil Read-across from supporting substance (structural

analogue or surrogate), Supporting study

Methanol 84 %, Experimental result, Key study Detected in water.

46.3 %, 5 d, Experimental result, Supporting study Soil 69 %, Experimental result, Key study Detected in water. 71.5 %, 5 d, Experimental result, Key study Detected in water. 82.7 %, 5 d, Experimental result, Key study Detected in water.

BOD/COD Ratio

Product: No data available.

Components:

Ethanol No data available.

Methanol No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Ethanol Potential to bioaccumulate is low.

Methanol Green algae (Chlorella fusca vacuolata), 28,400, Static

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Components:

Ethanol No data available.

Methanol -0.77

SDS_CA 17/24



Last revised date: 07/23/2024

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Mobility in soil:

Product: No data available.

Components:

Ethanol soil - Very mobile liquid No data available. Methanol

Results of PBT and vPvB assessment:

Product: No data available.

Components:

Ethanol Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling

vPvB (very persistent/very bioaccummulative) criteria

Methanol No data available.

Other adverse effects:

Other hazards

Product: These materials have not been tested for environmental effects.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements. This product is highly flammable. Don't use fire to

cut empty container after use.

Disposal methods: Dispose of waste at an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Contaminated Packaging:

Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and

regulations, and product characteristics at time of disposal.

18/24 SDS_CA



Last revised date: 07/23/2024

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14. Transport information

IATA

UN number or ID number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9

Label(s): 9MI (Miscellaneous)

Packing Group:

Passenger and cargo aircraft:

Limited quantity None.

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

Special precautions for user:

PG

Passenger and cargo aircraft: Forbidden.

Cargo aircraft only: Forbidden.

IMDG

SDS_CA 19/24





UN number or ID number: UN 3316

UN Proper Shipping Name: CHEMICAL KIT

Transport Hazard Class(es)

Class: 9

Label(s): 9

EmS No.: F-A, S-P

Packing Group:

Limited quantity None.

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

Special precautions for user:

PG

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

SDS_CA 20/24



Last revised date: 07/23/2024

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Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

Chemical Identity

Ethanol

METHANOL

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

Chemical Identity

METHANOL

Greenhouse Gases

Not Regulated

Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements

Not Regulated

Controlled Drugs and Substances Act

CA CDSI Not Regulated

CA CDSII Not Regulated

SDS_CA 21/24



Last revised date: 07/23/2024

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CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

Precursor Control Regulations

Not Regulated

16.Other information, including date of preparation or last revision

Date of first report version: 04/17/2014

Generation date: 07/23/2024

Version #: 2.4

Abbreviations and acronyms:

ACGIH: US. ACGIH Threshold Limit Values, as amended

CAD AB OEL: Canada. Alberta OELs (Occupational Health & Safety Code, Schedule

1, Table 2), as amended

CAD BC OEL: Canada. British Columbia OELs: Table of Exposure Limits for Chemical

Biological Substances (Workers Compensation Board); as amended

CAD MB OEL: Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And

Health Act), as amended

CAD ON OEL: Canada. Ontario OELs. (Control of Exposure to Biological or Chemical

Agents), as amended

CAD SK OEL: Canada. Saskatchewan OELs (Occupational Health and Safety

Regulations, 1996, Table 21), as amended

NIOSH IDLH: US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values,

as amended

NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended OEL (QUE): Canada. Quebec OELs. (Ministry of Labor - Regulation respecting

occupational health and safety), as amended

ACGIH / STEL: Short Term Exposure Limit (STEL): ACGIH / TWA: Time Weighted Average (TWA):

SDS_CA 22/24



Last revised date: 07/23/2024

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CAD AB OEL / STEL: Short Term Exposure Limit (STEL): Time Weighted Average (TWA): CAD AB OEL / TWA: CAD BC OEL / TWA: Time Weighted Average (TWA): CAD BC OEL / STEL: Short Term Exposure Limit (STEL): Time Weighted Average (TWA): CAD MB OEL / TWA: Short Term Exposure Limit (STEL): CAD MB OEL / STEL: CAD ON OEL / STEL: Short Term Exposure Limit (STEL): Time Weighted Average (TWA): CAD ON OEL / TWA: CAD SK OEL / 8 HR ACL: 8 hour average contamination limit: CAD SK OEL / 15 MIN ACL: 15 minute average contamination limit:

NIOSH IDLH / LEL: Lower Explosive Limit (LEL):

NIOSH IDLH / IDLH: Immediately dangerous to life or health (IDLH) concentration:

NIOSH/GUIDE / REL:
NIOSH/GUIDE / STEL:
OEL (QUE) / TWA:
OEL (QUE) / STEL:
Short Term Exposure Limit (STEL):
Time Weighted Average (TWA):
Short Term Exposure Limit (STEL):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act: CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DOT - Department of Transportation: DSL - Domestic Substances List (Canada): ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide: GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship: RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Source of information: European Chemicals Agency (ECHA): Information on Chemicals.

SDS CA 23/24



Last revised date: 07/23/2024

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Further Information: No data available.

Disclaimer: Disclaimer:

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completeness or accuracy of the information.

SDS_CA 24/24



Last revised date: 03/19/2024

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SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
0334275BJAA	STABILIZED GRAM IODINE 250ML	No data available

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory Chemicals Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152

USA

Telephone: 1 844 823 5433 Fax: not available

Contact Person: Business Unit Product Stewardship Team

E-mail: IDS_SDS@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 1

SDS_CA 1/21





Respiratory sensitizer Category 1B
Skin sensitizer Category 1B
Specific Target Organ Toxicity - Category 1
Repeated Exposure

Environmental Hazards

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H315: Causes skin irritation.

H318: Causes serious eye damage.

Category 3

H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H317: May cause an allergic skin reaction.

H372: Causes damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P264: Wash face, hands and any exposed skin thoroughly after handling.

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P284: [In case of inadequate ventilation] wear respiratory protection. P272: Contaminated work clothing should not be allowed out of the

workplace

P260: Do not breathe dust/fume/gas/mist/vapors/spray. P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

Response: P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air

and keep at rest in a position comfortable for breathing.

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER/doctor.

SDS_CA 2/21





P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

insing.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P310: Immediately call a POISON CENTER/doctor. P363: Wash contaminated clothing before reuse.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

with local, regional, national and international regulations.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.	25655-41-8	5 - 10%
Potassium iodide (KI)	No data available.	7681-11-0	1 - 5%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

SDS_CA 3/21



Version: 2.2

Last revised date: 03/19/2024

Description of first aid measures

General information: Causes serious eye damage. Causes skin irritation. May

cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand.

Get immediate medical advice/attention.

Inhalation: Get medical attention if any discomfort continues. Provide

fresh air, warmth and rest, preferably in comfortable upright

sitting position.

Skin Contact: Wash off promptly and flush contaminated skin with water.

Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash

contaminated clothing before reuse.

Eye contact: Important! Immediately rinse with water for 60 minutes. Get

medical attention immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is

conscious). Do NOT induce vomiting. Get medical attention

immediately.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Symptoms may be delayed.

SDS_CA 4/21



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Hazards: May cause an allergic skin reaction. May cause allergy or

asthma symptoms or breathing difficulties if inhaled. Causes serious eye damage. Causes skin irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Get immediate medical advice/attention. Wash off promptly

and flush contaminated skin with water. Promptly remove

clothing if soaked through and flush skin with water.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames,

heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide. Use

fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and

spread fire.

Special hazards arising from the

substance or mixture:

Fire or excessive heat may produce hazardous

decomposition products.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No unusual fire or explosion hazards noted.

SDS_CA 5/21





Special protective equipment for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

Accidental release measures: No data available.

Methods and material for containment and cleaning up:

Stop leak if possible without any risk. Absorb spillage with suitable absorbent material. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

Environmental Precautions: Do not release into the environment. Environmental

manager must be informed of all major spillages.

7. Handling and storage

Handling

SDS_CA 6/21



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Technical measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: Wash at the end of each work shift and before eating,

smoking and using the toilet.Do not breathe

dust/fume/gas/mist/vapors/spray. Do not get in eyes and avoid contact with skin and clothing. Wash promptly with soap and water if skin becomes

contaminated. When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in tightly closed original container in a dry, cool

and well-ventilated place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source

SDS_CA 7/21



Last revised date: 03/19/2024

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Potassium iodide (KI) - Inhalable fraction and vapor.	TWA	0.01 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Potassium iodide (KI) - Inhalable fraction as Iodine (I)			0.01 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Potassium iodide (KI) - Inhalable fraction as Iodine (I)	TWA		0.01 mg/m3	US. ACGIH Threshold Limit Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering ControlsAdequate ventilation should be provided whenever the material is heated or mists are generated.

Individual protection measures, such as personal protective equipment

Eye/face protection: Chemical goggles and face shield are recommended.

Hand Protection: Material: Chemical resistant gloves

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection: If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

SDS_CA 8/21



Last revised date: 03/19/2024

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Hygiene measures: Do not eat, drink or smoke when using the product.

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin. Do not

breathe dust/fume/gas/mist/vapors/spray.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: According to product specification.

Odor: Characteristic

Odor Threshold: No data available.

Freezing point: No data available.

Boiling Point: No data available.

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:No data available.

Explosive limit - lower: No data available.

Flash Point: Not applicable

Self-ignition: No data available.

Decomposition Temperature: No data available.

SDS_CA 9/21



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pH: No data available.

Viscosity

Dynamic viscosity: Not determined.

Kinematic viscosity: Not determined.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Completely Soluble

Solubility (other): No data available.

Partition coefficient (n-

octanol/water):

No data available.

Version: 2.2

Last revised date: 03/19/2024

Vapor pressure: No data available.

Relative density: No data available.

Density: No data available.

Bulk density: No data available.

Relative vapor density: No data available.

Other information

Metal Corrosion: Non-corrosive per US Department of Transportation

testing protocol.

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

SDS_CA 10/21





Chemical Stability: No data available.

Possibility of hazardous

reactions:

Stable; however, may decompose if heated. None

under normal conditions.

Conditions to avoid: Avoid exposure to high temperatures or direct

sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition

Products:

By heating and fire, harmful vapors/gases may be

formed.

11. Toxicological information

General information: May cause allergic respiratory and skin reactions.

Information on likely routes of exposure

Inhalation: May cause respiratory allergy.

Skin Contact: Causes skin irritation. Prolonged or repeated contact may cause skin

sensitization in susceptible individuals.

Eye contact: May cause chemical eye burns.

Ingestion: Ingestion may cause severe irritation of the mouth, the esophagus and

the gastrointestinal tract.

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix, 26,315.79 mg/kg

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

SDS_CA 11/21



Last revised date: 03/19/2024



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Dermal

Product: Not classified for acute toxicity based on available data.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Repeated dose toxicity

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Skin Corrosion/Irritation

Product: Irritant

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Serious Eye Damage/Eye Irritation

Product: May cause chemical eye burns.

Components:

2-Pyrrolidinone. 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Respiratory or Skin Sensitization

Product: Skin and respiratory sensitizer

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Carcinogenicity

Product: No data available.

SDS CA 12/21





Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended No carcinogens present or none present in regulated quantities

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended No carcinogens present or none present in regulated quantities

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

In vivo

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Reproductive toxicity

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

SDS_CA 13/21



Last revised date: 03/19/2024

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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: Category 1

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Aspiration Hazard

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

General information: Harmful to aquatic life.

Ecotoxicity:

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Toxicity to microorganisms

Product: No data available.

SDS_CA 14/21



Last revised date: 03/19/2024

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Components:

2-Pyrrolidinone, 1-

No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI)

No data available.

Acute hazards to the aquatic environment:

Fish

Product: Harmful to aquatic organisms.

Components:

2-Pyrrolidinone, 1-

No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI)

NOAEL, Danio rerio, 7 d, 100 mg/lStatic, Experimental result, Key study LC 0, Danio rerio, 96 h, 100 mg/lStatic, Experimental result, Key study LC 50, Oncorhynchus mykiss, 96 h, 3,780 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50, Oncorhynchus mykiss, 96 h, 896 mg/lStatic, Experimental result,

Supporting study

LC 50, Oncorhynchus mykiss, 96 h, 2,190 mg/lStatic, Experimental

result, Supporting study

Aquatic Invertebrates

Product:

Harmful to aquatic organisms.

Components: 2-Pyrrolidinone, 1-

ethenyl-, homopolymer,

compd. with iodine

Potassium iodide (KI)

No data available.

LC 50, Zebra mussel (Dreissena polymorpha), 24 h, 220 - 313 mg/lStatic,

Mortality

Chronic hazards to the aquatic environment:

Fish

Product: Expected to be harmful to aquatic organisms. May cause long-term

adverse effects in the environment.

Components:

2-Pyrrolidinone, 1-

No data available.

ethenyl-, homopolymer, compd. with iodine Potassium iodide (KI)

No data available.

Aquatic Invertebrates

Product:

Expected to be harmful to aquatic organisms. May cause long-term

adverse effects in the environment.

Components:

2-Pyrrolidinone, 1ethenyl-, homopolymer, compd. with iodine

No data available.

SDS CA 15/21





Potassium iodide (KI) No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) 50 %, 720 h, Estimated by calculation, Key study Soil

50 %, 360 h, Estimated by calculation, Key study Detected in water. 50 %, 3,240 h, Estimated by calculation, Key study Sediment

50 %, 360 h, Estimated by calculation, Key study Sediment

BOD/COD Ratio

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) Various, 2.27, Estimated by calculation, Key study Aquatic sediment

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer, compd. with iodine

Potassium iodide (KI) No data available.

Mobility in soil:

Product: No data available.

Components:

2-Pyrrolidinone, 1-ethenyl-, No data available.

homopolymer, compd. with

iodine

SDS_CA 16/21





Potassium iodide (KI) No data available.

Results of PBT and vPvB assessment:

Product: No data available.

Components:

2-Pyrrolidinone, 1-ethenyl-, No data available.

homopolymer, compd. with

iodine

Potassium iodide (KI) No data available.

Other adverse effects:

Other hazards

Product: Dangerous for the environment: May cause long-term adverse effects in

the aquatic environment.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

Disposal methods: Discharge, treatment, or disposal may be subject to national,

state, or local laws.

Since emptied containers retain product residue, follow label

warnings even after container is emptied.

Contaminated Packaging:

Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and

regulations, and product characteristics at time of disposal.

SDS_CA 17/21



Last revised date: 03/19/2024

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14.	11all5	ροιι ΙΙΙΙ	formation

IATA

Not Regulated.

IMDG

Not Regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated

SDS_CA 18/21



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Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

Greenhouse Gases

Not Regulated

Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements

Not Regulated

Controlled Drugs and Substances Act

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

Precursor Control Regulations

Not Regulated

SDS_CA 19/21



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16.Other information, including date of preparation or last revision

Date of first report version: 04/17/2014

Generation date: 03/19/2024

Version #: 2.2

Abbreviations and acronyms:

ACGIH: US. ACGIH Threshold Limit Values, as amended

CAD MB OEL: Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And

Health Act), as amended

CAD ON OEL: Canada. Ontario OELs. (Control of Exposure to Biological or Chemical

Agents), as amended

ACGIH / TWA: Time Weighted Average (TWA): CAD MB OEL / TWA: Time Weighted Average (TWA): CAD ON OEL / TWA: Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

SDS CA 20/21





Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Source of information: European Chemicals Agency (ECHA): Information on Chemicals.

Further Information: No data available.

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SDS_CA 21/21