



Formalin, 10%, Neutral Buffered

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 12/09/2015

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Formalin, 10%, Neutral Buffered
Product code : F6000
Product group : Blend

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Produits Chimiques ACP Chemicals Inc.
4601, boul. des Grandes Prairies
Montreal, Quebec H1R 1A5
www.acpchem.com

1.4. Emergency telephone number

Emergency number : (613) 996-6666 (CANUTEC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Skin Irrit. 2 H315
Eye Irrit. 2A H319
Carc. 1A H350
STOT SE 1 H370

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA)



GHS07

GHS08

Signal word (GHS-CA) Hazard statements (GHS-CA)

: Danger

Hazard statements (GHS-CA)

: Causes skin irritation
Causes serious eye irritation
May cause cancer (Inhalation)
Causes damage to organs (central nervous system, optic nerve)

Precautionary statements (GHS-CA)

: Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Do not breathe mist, spray, vapours
Wash hands, forearms and face thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves, eye protection
IF ON SKIN: Wash with plenty of water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF exposed or concerned: Call a POISON CENTER, a doctor
If skin irritation occurs: Get medical advice/attention
If eye irritation persists: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
Store locked up
Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

Other hazards not contributing to the classification

: None.

2.4. Unknown acute toxicity (GHS-CA)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification (GHS-CA)
Water	(CAS No) 7732-18-5	89.52	Not classified
Formaldehyde, 37% w/w	(CAS No) 50-00-0	9.33	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Carc. 1A, H350 STOT SE 1, H370 Aquatic Acute 2, H401
Sodium Hydroxide	(CAS No) 1310-73-2	0.65	Skin Corr. 1A, H314 Eye Dam. 1, H318
Phosphoric Acid, 85% w/w	(CAS No) 7664-38-2	0.5	Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/injuries : May cause cancer (Inhalation).
- Symptoms/injuries after inhalation : May cause an allergic skin reaction.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : Nausea. Vomiting.
- Symptoms/injuries upon intravenous administration : Not available.
- Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

4.3. Immediate medical attention and special treatment, if necessary

- Treatment : Obtain medical assistance. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2. Unsuitable extinguishing media

- Unsuitable extinguishing media : Do not use a heavy water stream. Flammable liquid and vapour.

5.3. Specific hazards arising from the hazardous product

- Fire hazard : Flammable liquid and vapour.
- Explosion hazard : No direct explosion hazard.
- Reactivity : Product is not explosive.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Absorb spillage to prevent material damage. Eliminate every possible source of ignition.

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- Personal Precautions, Protective Equipment and Emergency Procedures : Protective gloves. Protective clothing. Chemical goggles or safety glasses.
- Prevention Measures for Secondary Accidents : Ventilate area. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

6.2. Methods and materials for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

Sea transport (IMO)

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing mist, vapours, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Local and general ventilation : Provide appropriate exhaust ventilation at places of dust forming.
- Hygiene measures : Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Use only non-sparking tools. Take precautionary measures against static discharge.
- Storage conditions : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids. Strong oxidizers.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.
- Storage area : Keep container in a well-ventilated place. Keep locked up. Store away from heat.
- Prohibitions on mixed storage : organic materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Hydroxide (1310-73-2)		
USA - ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³ (Sodium hydroxide; USA; Momentary value; TLV - Adopted Value)
Canada (Quebec)	PLAFOND (mg/m ³)	2 mg/m ³
Canada (Quebec)	Notations and remarks	RP
Alberta	OEL Ceiling (mg/m ³)	2 mg/m ³
British Columbia	OEL Ceiling (mg/m ³)	2 mg/m ³
Manitoba	OEL Ceiling (mg/m ³)	2 mg/m ³
New Brunswick	OEL Ceiling (mg/m ³)	2 mg/m ³
New Foundland & Labrador	OEL Ceiling (mg/m ³)	2 mg/m ³
Nova Scotia	OEL Ceiling (mg/m ³)	2 mg/m ³
Nunavut	OEL Ceiling (mg/m ³)	2 mg/m ³
Northwest Territories	OEL Ceiling (mg/m ³)	2 mg/m ³
Ontario	OEL Ceiling (mg/m ³)	2 mg/m ³
Prince Edward Island	OEL Ceiling (mg/m ³)	2 mg/m ³
Québec	PLAFOND (mg/m ³)	2 mg/m ³
Québec	Notations and remarks	RP
Saskatchewan	OEL Ceiling (mg/m ³)	2 mg/m ³
Yukon	OEL Ceiling (mg/m ³)	2 mg/m ³
Phosphoric Acid, 85% w/w (7664-38-2)		
Canada (Quebec)	PLAFOND (mg/m ³)	1 mg/m ³
Alberta	OEL Ceiling (mg/m ³)	3 mg/m ³
Alberta	OEL TWA (mg/m ³)	1 mg/m ³
British Columbia	OEL Ceiling (mg/m ³)	3 mg/m ³
British Columbia	OEL TWA (mg/m ³)	1 mg/m ³
Manitoba	OEL Ceiling (mg/m ³)	3 mg/m ³
Manitoba	OEL TWA (mg/m ³)	1 mg/m ³

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Phosphoric Acid, 85% w/w (7664-38-2)		
New Brunswick	OEL Ceiling (mg/m³)	3 mg/m³
New Brunswick	OEL TWA (mg/m³)	1 mg/m³
New Foundland & Labrador	OEL Ceiling (mg/m³)	3 mg/m³
New Foundland & Labrador	OEL TWA (mg/m³)	1 mg/m³
Nova Scotia	OEL Ceiling (mg/m³)	3 mg/m³
Nova Scotia	OEL TWA (mg/m³)	1 mg/m³
Nunavut	OEL Ceiling (mg/m³)	3 mg/m³
Nunavut	OEL TWA (mg/m³)	1 mg/m³
Northwest Territories	OEL Ceiling (mg/m³)	3 mg/m³
Northwest Territories	OEL TWA (mg/m³)	1 mg/m³
Ontario	OEL Ceiling (mg/m³)	3 mg/m³
Ontario	OEL TWA (mg/m³)	1 mg/m³
Prince Edward Island	OEL Ceiling (mg/m³)	3 mg/m³
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m³
Québec	PLAFOND (mg/m³)	1 mg/m³
Saskatchewan	OEL Ceiling (mg/m³)	3 mg/m³
Saskatchewan	OEL TWA (mg/m³)	1 mg/m³
Yukon	OEL Ceiling (mg/m³)	3 mg/m³
Yukon	OEL TWA (mg/m³)	1 mg/m³
Formaldehyde, 37% w/w (50-00-0)		
USA - ACGIH	ACGIH Ceiling (mg/m³)	0.37 mg/m³
Alberta	OEL Ceiling (mg/m³)	1.3 mg/m³
Alberta	OEL Ceiling (ppm)	1 ppm
Alberta	OEL TWA (mg/m³)	0.9 mg/m³
Alberta	OEL TWA (ppm)	0.75 ppm
Alberta	Notations and remarks	A2
British Columbia	OEL Ceiling (ppm)	1 ppm
British Columbia	OEL TWA (ppm)	0.3 ppm
Manitoba	OEL Ceiling (mg/m³)	<= mg/m³
Manitoba	OEL Ceiling (ppm)	1 ppm
Manitoba	OEL TWA (ppm)	0.3 ppm
New Brunswick	OEL Ceiling (ppm)	1 ppm
New Brunswick	OEL TWA (ppm)	0.3 ppm
New Foundland & Labrador	OEL Ceiling (ppm)	1 ppm
New Foundland & Labrador	OEL TWA (ppm)	0.3 ppm
Nova Scotia	OEL Ceiling (ppm)	1 ppm
Nova Scotia	OEL TWA (ppm)	0.3 ppm
Nunavut	OEL Ceiling (ppm)	1 ppm
Nunavut	OEL TWA (ppm)	0.3 ppm
Northwest Territories	OEL Ceiling (ppm)	1 ppm
Northwest Territories	OEL TWA (ppm)	0.3 ppm
Ontario	OEL STEL (ppm)	1 ppm
Prince Edward Island	OEL TWA (ppm)	0.1 ppm
Saskatchewan	OEL TWA (ppm)	0.3 ppm
Yukon	OEL Ceiling (ppm)	0.3 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

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Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 5 - 8
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, kinematic (calculated value) (40 °C)	: No data available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity in case of fire	: Product is not explosive.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Refer to section 10.1 on Reactivity.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
Incompatible materials	: Strong acids. Strong bases. Strong oxidizers.
Hazardous decomposition products	: Phosphorus oxides. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Likely routes of exposure	: Skin and eye contact. Inhalation.
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11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Not classified.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat	> 5000 mg/kg

Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg

Formaldehyde, 37% w/w (50-00-0)	
LD50 oral rat	500 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	0.578 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: 5 - 8
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5 - 8
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer (Inhalation).
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Causes damage to organs (central nervous system, optic nerve).
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - water	: Harmful to aquatic life.

Sodium Hydroxide (1310-73-2)	
LC50 fish 1	45.4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)

Phosphoric Acid, 85% w/w (7664-38-2)	
LC50 fish 1	138 mg/l (LC50)

Formaldehyde, 37% w/w (50-00-0)	
LC50 fish 1	41 mg/l (LC50; 96 h)
EC50 Daphnia 1	14.7 mg/l (EC50; 24 h)
EC50 Daphnia 2	2 mg/l

12.2. Persistence and degradability

Formalin, 10%, Neutral Buffered	
Persistence and degradability	Not established.

Water (7732-18-5)	
Persistence and degradability	Not established.

Sodium Hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable. No (test) data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

Phosphoric Acid, 85% w/w (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable. No (test) data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

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Formaldehyde, 37% w/w (50-00-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available. No (test) data on mobility of the components available. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.64 g O ₂ /g substance
Chemical oxygen demand (COD)	1.06 g O ₂ /g substance
ThOD	1.068 g O ₂ /g substance
BOD (% of ThOD)	0.60 (5 days; Literature study)

12.3. Bioaccumulative potential

Formalin, 10%, Neutral Buffered	
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
Sodium Hydroxide (1310-73-2)	
Bioaccumulative potential	No bioaccumulation data available.
Phosphoric Acid, 85% w/w (7664-38-2)	
Bioaccumulative potential	Not bioaccumulative.
Formaldehyde, 37% w/w (50-00-0)	
Log Pow	-0.78 - 0.0
Bioaccumulative potential	Bioaccumulation: not applicable.

12.4. Mobility in soil

Formaldehyde, 37% w/w (50-00-0)	
Log Pow	-0.78 - 0.0
Ecology - soil	Toxic to flora.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

TDG

Not regulated for transport

DOT

Not regulated for transport

14.3. Air and sea transport

IMDG

No additional information available

IATA

No additional information available

SECTION 15: Regulatory information

National/international regulations

No additional information available

SECTION 16: Other information

SDS Major/Minor : None
Date of issue : 09/12/2015

Indication of changes:

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Other information : None.

Full text of H-statements:

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H350	May cause cancer
H370	Causes damage to organs
H401	Toxic to aquatic life

SDS Canada ACP

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product