

Instrument Lubricant

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Date of issue: 3/7/2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form

: Mixture

Trade name

1.2.

: Hinge Free™ - Instrument Lubricant

Product code

: 1031

Use of the substance/mixture

Relevant identified uses of the substance or mixture and uses advised against : Instrument Lubricant

Use of the substance/mixture

: For professional use only

Details of the supplier of the safety data sheet

STERIS Corporation

P. O. Box 147, St. Louis, MO 63166, US

Telephone Number for Information: 1-800-548-4873 (Customer Service - Healthcare Products)

1.4. Emergency telephone number

Emergency number

: US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification

Skin Corr. /Irrit. 3 H316

Full text of H-phrases: see Section 16.

Label elements

GHS labelling

Hazard pictograms (GHS)

: None

Signal word (GHS)

: Warning

Hazard Statements (GHS)

: H316 - Causes mild skin irritation.

Precautionary statements (GHS)

: P332+P313 - If skin irritation occurs: Get medical advice/attention.

Other hazards

No additional information available.

2.4. Unknown acute toxicity (GHS)

No data available.

SECTION 3: Composition/information on ingredient

3.1. Substance

Not applicable.

3.2. Mixture

Name	Product identifier	%	GHS classification
Dimethylol-5,5-dimethylhydantoin	(CAS No) 6440-58-0	1-3	Acute Tox. 4 (Oral), H302 Skin Corr./Irrit., H316

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention.

First-aid measures after skin contact

Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Obtain medical attention. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes

First-aid measures after eye contact

holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately. If swallowed, rinse mouth with water (only if the person is conscious). Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Give water to drink if victim

First-aid measures after ingestion

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: The inhalation of airborne droplets or aerosols causes irritation of the respiratory tract.

Symptoms/injuries after skin contact

: Prolonged or repeated contact with the skin may cause dermatitis.

Symptoms/injuries after ingestion

: Can occur: Gastrointestinal disturbance. Abdominal pain.

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completely conscious/alert.

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Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Foam, carbon dioxide, dry chemical. Water spray.

Special hazards arising from the substance or mixture

No additional information available.

Advice for firefighters

Firefighting instructions

: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Cool closed containers exposed to fire with water spray. Do not get water inside containers

Protective equipment for firefighters

Use self-contained breathing apparatus. Do not enter fire area without proper protective

equipment, including respiratory protection.

Other information

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Sulfur oxides.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

: Avoid inhalation of vapour and spray mist. Avoid contact with skin, eyes and clothes. Use personal protective equipment as required. Stop leak if safe to do so.

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures

: Ensure adequate ventilation.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up

: Spills may be picked up with a mop and followed by a water rinse. Wash contaminated areas with large quantities of water to a sanitary sewer, if in accordance with local, state or national legislation. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect in closed containers for disposal. Ensure all national/local regulations are observed.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Read label before use. Avoid contact with skin, eyes and clothing. Avoid breathing mist or vapor .

Keep container closed when not in use. Work in a well-ventilated area.

Hygiene measures

- Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
- Conditions for safe storage, including any incompatibilities

Technical measures

: A washing facility/water for eye and skin cleaning purposes should be present. Provide local exhaust or general room ventilation.

Storage conditions

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Keep out of reach of children. Keep only in the original container in a cool, well ventilated place. Store at room temperature. Avoid freezing.

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Strong oxidizers.

Canadian (EN/FR)

Incompatible materials Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Triethanolamine (102-71-6)		
USA - ACGIH	ACGIH TWA (mg/m³)	5 mg/m³

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Exposure controls

Appropriate engineering controls

: Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety

showers should be available in the immediate vicinity of any potential exposure.

Avoid all unnecessary exposure. Personal protective equipment should be selected based upon Personal protective equipment the conditions under which this product is handled or used. Protective clothing. Gloves.

Protective goggles.





Hand protection

: Wear rubber gloves.

Eye protection

: Wear chemical goggles or safety glasses.

Respiratory protection

The need for respiratory protection is not anticipated under normal use conditions and with

adequate ventilation.

Do not eat, drink or smoke during use. Other information

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

: Liquid

Appearance

: Milky white emulsion

Colour

: Milky white

Odour

: Mild oleic odour

Odour threshold

: No data available

pH

7.8 Approximately

: pH(1:6): Approx. 7.4

pH solution Relative evaporation rate (butyl acetate=1)

: No data available

Melting point

: No data available

Freezing point

: No data available

: No data available

Boiling point

: > 93.33 °C >200 °F

Flash point Auto-ignition temperature

: No data available

Decomposition temperature

No data available

Flammability (solid, gas)

No data available

Vapour pressure

No data available

Relative vapour density at 20 °C

: No data available

Relative density

No data available

Density

0.989 g/ml Specific Gravity

Solubility

Water: Disperses

Log Pow

: No data available

Log Kow

: No data available

Viscosity, kinematic

: No data available

Viscosity, dynamic

No data available

Explosive properties

: No data available

Oxidising properties Explosive limits

: No data available : No data available.

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9.2. Other information No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

No additional information available.

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10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

No additional information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Based on available data, the classification criteria are not met

Dimethylol-5,5-dimethylhydantoin (6440-58-0)	Dased on available data, the classification chieffa are not met.
LD50 oral rat	2000 mg/kg
ATE CLP (oral)	2000.000 mg/kg bodyweight

Triethanolamine (102-71-6)		
LD50 oral rat	4190 mg/kg	
LD50 dermal rabbit	> 20 ml/kg	
ATE CLP (oral)	4190.000 mg/kg bodyweight	

Skin corrosion/irritation

: Causes mild skin irritation

pH: 7.8 Approximately

Serious eye damage/irritation

: Not considered to be an eye irritant

pH: 7.8 Approximately

Respiratory or skin sensitisation

: Not expected to cause irritation

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Not classifie

Not classified

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated

Not classified

exposure)

Based on available data, the classification criteria are not met

: Not classified

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

SECTION 12: Ecological information

12.1. Toxicity

Aspiration hazard

Ecology - general

: Inherently biodegradable. (OECD 301B method).

12.2. Persistence and degradability

Hinge Free™ - Instrument Lubricant		
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.	

12.3. Bioaccumulative potential

Hinge Free™ - Instrument Lubrican	
Bioaccumulative potential	Not established.
Triethanolamine (102-71-6)	
BCF fish 1	< 3.9
Log Pow	-2.53

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers.

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Additional information

- : Never return unused material to original container. Small spills may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation.
 - Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG

TDG

Not regulated for transport.

DOT

Not regulated for transport.

ADR

No additional information available.

Transport by sea

No additional information available.

Air transport

No additional information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

Hinge Free™ - Instrument Lubricant

RQ (Reportable quantity, section 304 of EPA's List of Lists):

9433 lb

Dimethylol-5,5-dimethylhydantoin (6440-58-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

No additional information available.

15.3. US State regulations

Not applicable.

15.4. Canadian regulations

Dimethylol-5,5-dimethylhydantoin (6440-58-0)

Listed on the Canadian DSL (Domestic Sustances List)

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by HPR.

SECTION 16: Other information

Revision Date

: 3/7/2017

Other information

: None.

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Skin Corr. 3	Skin corrosion/irritation Category 3	
H302	Harmful if swallowed	B.1000
H316	Causes mild skin irritation	

NFPA health hazard

: 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

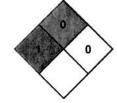
NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



SDS Canada - Steris

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.

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