

Instrument Lubricant

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Date of issue: 11/26/2014

	Date of issue	: 11/26/2014		Version: 1.0
SECTION 1: Identification of the	substance/	mixture and of the company	/undertaking	
1.1. Product identifier				
Product form	: Mixtur	e		
Trade name	: Hinge	Free™ - Instrument Lubricant		
Product code	: 1031			
1.2. Relevant identified uses of the	substance or i	mixture and uses advised against		
Use of the substance/mixture		ment Lubricant		
Use of the substance/mixture		ofessional use only		
	•			
1.3. Details of the supplier of the s STERIS Corporation P. O. Box 147, St. Louis, MO 63166, US Telephone Number for Information: 1-800-	548-4873 (Custo			
1.4. Emergency telephone number	•			
Emergency number	: US Er	nergency Telephone No.1-314-535-13	395 (STERIS); 1-8	00-424-9300 (CHEMTREC)
SECTION 2: Hazards identificat	ion			
2.1. Classification of the substanc	e or mixture			
GHS-US classification				
Skin Corr. /Irrit. 3 H316				
Full text of H-phrases: see Section 16.				
2.2. Label elements				
GHS-US labelling				
Hazard pictograms (GHS-US)	: None			
Signal word (GHS-US)	: Warni	ng l		
Hazard Statements (GHS-US)		– Causes mild skin irritation.		
Precautionary statements (GHS-US)		- Causes find skin inflation. -P313 – If skin irritation occurs: Get m	adical advica/attor	ation
,	. FJJ27			
2.3. Other hazards				
No additional information available.				
2.4. Unknown acute toxicity (GHS-	08)			
No data available.				
SECTION 3: Composition/inforr	nation on ing	gredients		
3.1. Substance				
Not applicable.				
3.2. Mixture				
Name		Product identifier	%	GHS-US classification
Dimethylol-5,5-dimethylhydantoin		(CAS No) 6440-58-0	1 - 3	Acute Tox. 4 (Oral), H302
Triethanolamine		(CAS No) 102-71-6	1 - 3	Eye Irrit. 2, H319
Etoxylated oleyl alcohol		(CAS No) 9004-98-2	1 - 5	Not classified
SECTION 4: First aid measures				
4.1. Description of first aid measu		aive on thing by mosth to an una		
First-aid measures general		give anything by mouth to an unconst the label where possible).	scious person. If yo	ou reel unwell, seek medical advid
First-aid measures after inhalation	: Remo	ve to fresh air and keep at rest in a po	sition comfortable	for breathing. If not breathing, giv
First-aid measures after skin contact	: Imme	 artificial respiration. Get medical attention. Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Obtain medical attention. 		
First aid managuras often aver sentest		•		flowing water for 10 to 15 minut
First-aid measures after eye contact	holdin	e of contact with eyes flush immedia g eyelids apart and consult an opht o do. Continue rinsing. Seek medical	halmologist. Remo	ove contact lenses, if present ar
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First-aid measures after ingestion	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 completely conscious/alert.
4.2. 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.
4.3. Indication of any immediate medical a	ttention and special treatment needed
No additional information available.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
000	: Use fire-extinguishing media appropriate for surrounding materials. Foam, carbon dioxide, dry chemical. Water spray.
5.2. Special hazards arising from the subs	tance or mixture
No additional information available.	
5.3. Advice for firefighters	
	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 measu	ires
6.1. Personal precautions, protective equi	
General measures	Avoid inhalation of vapor 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	
	Evacuate unnecessary personnel.
C4.2 For emergency respondence	
6.1.2. For emergency responders	
	Equip cleanup crew with proper protection. Ensure adequate ventilation.
0	
6.2. Environmental precautions	
Frevent entry to sewers and public waters. Notify a	authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containment	
6.3. Methods and material for containment Methods for cleaning up	t and 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.
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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.

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7.2.	Conditions for safe storage, includi	ng any incompatibilities
Technic	al measures	: A washing facility/water for eye and skin cleaning purposes should be present. Provide local exhaust or general room ventilation.
Storage	conditions	: Keep out of reach of children. Keep only in the original container in a cool, well ventilated place. Store at room temperature. Avoid freezing.
Incompa	atible materials	: Strong oxidizers.
7.3.	Specific end use(s)	
No addi	tional information available.	

ontrols/personal protection	
ACGIH TWA (mg/m³)	5 mg/m ³
	ust or general room ventilation. Emergency eye wash fountains and safety available in the immediate vicinity of any potential exposure.
the conditions unde	ary exposure. Personal protective equipment should be selected based upon er which this product is handled or used. Protective clothing. Gloves.
: Wear rubber gloves	».
: Wear chemical gog	gles or safety glasses.
: Wear suitable prote	ctive clothing.
	atory protection is not anticipated under normal use conditions and with n.
: Do not eat, drink or	smoke during use.
d chemical properties	
physical and chemical properties	
: Liquid	
: Milky white emulsio	n n n n n n n n n n n n n n n n n n n
	11
	ACGIH TWA (mg/m³) : Provide local exhat showers should be : Avoid all unnecess the conditions unde Protective googles. : Wear rubber gloves : Wear rubber gloves : Wear chemical gog : Wear suitable prote : The need for respir adequate ventilation : Do not eat, drink or chemical properties physical and chemical properties : Liquid

Odor : Mild oleic odor

- Odour threshold : No data available
- pН : 7.8 Approximately (concentrate)
- : 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 Boiling point : No data available : > 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

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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	: No data available
Explosive limits	: No data available.

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available. 10.2. Chemical stability Stable under normal conditions of use. 10.3. Possibility of hazardous reactions Hazardous polymerization will not occur. 10.4. Conditions to avoid No additional information available. 10.5. Incompatible materials Strong oxidizers. 10.6. Hazardous decomposition products No additional information available.	
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CECTION 44. Toxicological information	

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

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

Serious eye damage/irritationpH: 7.8 ApproximatelySerious eye damage/irritation: Not considered to be an eye irritant pH: 7.8 ApproximatelyRespiratory 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 classified Based on available data, the classification criteria are not met.Specific target organ toxicity (single exposure): Not classified Based on available data, the classification criteria are not met.Specific target organ toxicity (repeated: Not classified Based on available data, the classification criteria are not met.Specific target organ toxicity (repeated: Not classified Based on available data, the classification criteria are not met.Specific target organ toxicity (repeated: Not classified Based on available data, the classification criteria are not met.Specific target organ toxicity (repeated: Not classified Based on available data, the classification criteria are not met.	Dimethylol-5,5-dimethylhydantoin (6440-68-0	D)
Triethanolamine (102-71-6) 4190 mg/kg > 20 m/kg 4190.000 mg/kg bodyweight Skin corrosion/irritation pH: 7.8 Approximately Serious eye damage/irritation : Not considered to be an eye irritant pH: 7.8 Approximately Serious eye damage/irritation : Not considered to be an eye irritant pH: 7.8 Approximately Respiratory or skin sensitisation : 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 classified Based on available data, the classification criteria are not met. Specific target organ toxicity (single exposure) : Not classified Based on available data, the classification criteria are not met. Specific target organ toxicity (repeated : Not classified Based on available data, the classification criteria are not met. Specific target organ toxicity (repeated : Not classified	LD50 oral rat	2000 mg/kg
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Aspiration hazard

: Not classified

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

SECTION 12: Ecological information	
2.1. Toxicity	
Ecology - general	: Inherently biodegradable. (OECD 301B method).
Triethanolamine (102-71-6)	
LC50 fishes 1	10600-1300 mg/l (Exposure time: 96 h – Species: Pimephales promelas [flow-through])
LC50 fish 2	 >1000 mg/l (Exposure time: 96 h – Species: Pimephales promelas [satic])
2.2. Persistence and degradability	
Hinge Free™ - Instrument Lubricant Persistance 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 the detergent manufacturer.
2.3. Bioaccumulative potential	
Hinge Free™ - Instrument Lubricant	
Bioaccumulative potential	Not established
Triethanolamine (102-71-6)	
BCF fish 1	BCF fish 1
Log Pow	Low Pog
2.4. Mobility in soil	
Z.4. WODINTY IN SOIL	
No additional information available.	
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No additional information available. 12.5. Other adverse effects. Avoid release to the environment.	
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Instrument Lubricant

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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
Dimethodal 5.5 dimethodostain (CA40.50.0)	
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

This product contains a chemical known to the State of California to cause cancer.

SECTION 16: Other information

Full text of H-phrases:

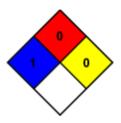
at of reprivates.	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 3	Skin corrosion/irritation Category 3
H302	Harmful if swallowed
H316	Causes mild skin irritation
H319	Causes serious eye irritation

NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 1 Exposure could cause irritation but only minor residual injury even if no treatment is given.
- : 0 Materials that will not burn.
 - : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

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.