



SAFETY DATA SHEET

1. Identification of the Substance/Preparation and Company

Hinge-Free® (Registered Trademark in US and Canada)
Instrument Lubricant
Product No. 1031
MSDS No. 1031

NFPA 704 HAZARD RATING:
HEALTH: 1
FIRE: 0
REACTIVITY: 0

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Emergency Telephone No. 1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)
Telephone Number for Information: 1-800-548-4873 (Customer Service-Healthcare Products)

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Product/Technical Information Phone No. +44 (0) 1256 840400

2. Composition/Information on Ingredients

Hazardous Component(s)	EEC No.	CAS No.	% By Wt.	Symbol	R Phrases	Oral LD ₅₀	LC ₅₀
Ethoxylated clay alcohol	500-016-2	9004-98-2	1-5	[Xn]	[36/38]	>5,000 mg/kg (rat)	ND

3. Hazards Identification : May cause slight irritation to the skin.

4. First Aid Measures

Eye Contact: Flush eyes immediately with water for at least 15 minutes. Get medical attention if irritation develops.
Skin Contact: Flush skin immediately with water for at least 15 minutes. Get medical attention if irritation develops.
Ingestion: Do NOT induce vomiting. Promptly drink large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-Fighting Measures

Conditions of Flammability/Flash Point: >200F
Method: TCC
Auto-ignition Temperature: ND
Flammable Limits: Lower Flammable Limit: ND
Upper Flammable Limit: ND
Flammability Classification: NA
Special Hazards: None known.
Explosibility Data: ND
Extinguishing Media: Carbon dioxide, dry chemical, foam or water spray.
Special Fire Fighting Procedures: None known.
Hazard Combustion Products: None Known

6. Accidental Release Measures: Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water if in accordance with National and local regulations.

7. Handling and Storage

7.1 Handling: Read and observe all labeled use instructions.
7.2 Storage: Keep out of reach of children. Store at room temperature. Avoid freezing.

8. Exposure Control/Personal Protection

8.1 Occupational Exposure Limits
No chemical is present which requires statutory control.

8.2 Personal Protection
Respirator Protection: Not required.
Eye Protection: Safety glasses or chemical goggles.
Protective Gloves: Rubber.
Other Protective Clothing and Equipment: Not required.
Engineering Controls/Ventilation: Normal room ventilation.

9. Physical and Chemical Properties

Solubility in Water: Disperses
pH (conc.): Approx. 7.8
Physical State/Appearance/Odor: Milky white emulsion / mild oleic odor.
Odor Threshold, Vapor Pressure, Vapor Density, Evaporation Rate, Boiling Point and Freezing Point: Not Available
Coefficient of Water/Oil Distribution: Not Applicable

10. Stability and Reactivity

Stability: Stable
Incompatible Materials: Strong oxidizers.
Conditions to Avoid/Conditions of Reactivity: None known.
Hazardous Decomposition or Byproducts: None known.

11. Toxicological Information

11.1 Acute (Primary Routes of Exposure)
Eyes (Irritation): Not considered to be an eye irritant.
Skin (Irritation or Sensitization): May cause slight irritation. PDI = 1.6
Inhalation: Not expected to cause irritation.
Ingestion: Very low toxicity. No adverse effects anticipated. LD₅₀ (rat) > 5,000 mg/kg.
11.2 Long Term Exposure
None known.
Carcinogenicity: IARC, NTP and OSHA do not list this product or its ingredients as carcinogens.
Reproductive Toxicity/Teratogenicity/Mutagenicity/Toxicologically Synergistic Products: ND

12. Ecological Information: Product is inherently biodegradable as per OECD Method 301B.

13. Disposal Considerations: Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with state, local and federal regulations. For additional guidance, contact the State Water Board or the Regional Office of the EPA.

14. Transport Information
Ground: Non-Hazardous
Sea: IMDG Class: Non-hazardous
Air: ICAO/IATA Class: Non-hazardous

15. Regulatory Information

EU Regulations: This preparation is classified as dangerous as defined by the UK Chemicals (Hazard Information and Packaging for Supply) Regulations. These regulations implement a number of EC Directives including the Dangerous Substances Directive (67/548/EEC and amendments), the Dangerous Preparations Directive (1998/45/EEC and amendments) and the Safety Data Sheets Directive (97/155/EEC and amendment).
Hazard Symbol: Xi
Risk Phrases: R36: Irritating to skin
Safety Phrases: S2: Keep out of reach of children, S37: Wear suitable gloves.
USA State Regulations: May contain trace levels of formaldehyde, ethylene oxide, propylene oxide and 1,4-dioxane.
WHMIS Classification: Class D2 Materials Causing Other Toxic Effects (Irritant)
This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Registration.

16. Other Information: 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 instructions or recommendations are not followed

NA - Not Applicable

ND - No Data