

**ILS Instrument Lubricant**

Revision date: 15.07.2015

Revision No: 1,2

Product code: 00379-0003

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

**1.1. Product identifier**

ILS Instrument Lubricant

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/mixture**

Instrument care product

**Uses advised against**

There is no information available on applications that are not advised.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer**

Company name: Hu-Friedy Mfg. Co., LLC  
Street: 3232 N. Rockwell St.  
Place: Chicago, IL 60618

**Supplier**

Company name: Hu-Friedy Mfg. Co., LLC.  
Zweigniederlassung Deutschland  
Street: Kleines Öschle 8  
Place: D-78532 Tuttlingen  
Telephone: 00800 48 37 43 39  
Telefax: 00800 48 37 43 40  
e-mail: info@hu-friedy.eu  
Internet: www.hu-friedy.eu  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

**1.4. Emergency telephone number:**

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
In England and Wales: NHS Direct - 0845 4647, In Scotland: NHS 24 - 08454 24 24 24

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**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture according to 1272/2008/EC**

Hazard categories:

Aspiration hazard: Asp. Tox. 1

Hazard Statements:

May be fatal if swallowed and enters airways.

**2.2. Label elements**

Signal word:

Danger

Pictograms:



**Hazard statements**

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310 Immediately call a POISON CENTER/doctor.  
P501 Disposal in accordance with local regulations.

**2.3. Other hazards**

Percentage of ingredients in admixture with unknown toxicity: 4%

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**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Instrument care spray

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
8042-47-5	White mineral oil (petroleum)			10 - 30 %
	232-455-8		01-2119487078-27	
	Asp. Tox. 1; H304			

Full text of H and EUH phrases: see section 16.

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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately. If you feel unwell, seek medical advice.

**After inhalation**

In case of inhalation of aerosol/mist consult a physician if necessary. Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

**After contact with skin**

Wash off with soap and plenty of water.

**After contact with eyes**

Rinse thoroughly with plenty of water, also under the eyelids.

**After ingestion**

Drink plenty of water. Consult a physician. Do not induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

Contact with eyes may cause irritation. Prolonged skin contact may cause skin irritation and/or dermatitis. Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam, carbon dioxide (CO2), dry chemical, water-spray.

Fire-extinguishing activities according to surrounding.

**Unsuitable extinguishing media**

Full water jet.

**5.2. Special hazards arising from the substance or mixture**

Fire may produce:

Carbon monoxide and carbon dioxide

**5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

Protective suit.

**Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

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**6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator. Ensure adequate ventilation. Remove persons to safety.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

**6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**6.4. Reference to other sections**

Information for disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid contact with eyes, skin or mucous membrane. Do not breathe aerosol

**Advice on protection against fire and explosion**

No special protective measures against fire required.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep containers tightly closed in a dry, well-ventilated place.

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

No data available.

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.2. Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothes before re-use.

**Eye/face protection**

Safety goggles with side protection (EN 166).

**Hand protection**

Protective gloves (EN 374) Recommended material [type, thickness, permeation time]: butyl rubber, 0,7 mm, protective index 6, corresponding to 480 minutes of permeation time according to EN 374. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Long sleeved clothing (EN 368).

**Respiratory protection**

No personal respiratory protective equipment normally required.

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Milky
Odour:	Mild

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pH-Value: 6,3

**Changes in the physical state**

Flash point: > 93,3 °C

Lower explosion limits: n.d.

Upper explosion limits:

Ignition temperature: n.d.

Density (at 20 °C): 0,97 g/cm<sup>3</sup>

Water solubility: Miscible  
(at 20 °C)

**9.2. Other information**

No data available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

No data available.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Oxidizing agents (strong).

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**Further information**

No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

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

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
8042-47-5	White mineral oil (petroleum)	oral	LD50	> 5000 mg/kg	Rat	
		dermal	LD50	> 2000 mg/kg	Rabbit	
		inhalative (4 h) vapour	LC50	> 5 mg/l	Rat	

**Irritation and corrosivity**

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

**Sensitising effects**

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

**STOT-single exposure**

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

**Severe effects after repeated or prolonged exposure**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**Aspiration hazard**

May be fatal if swallowed and enters airways.

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**Practical experience**

**Other observations**

Contact with eyes may cause irritation. Prolonged skin contact may cause skin irritation and/or dermatitis. Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No data available.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
8042-47-5	White mineral oil (petroleum)					
	Acute fish toxicity	LC50	> 1000 mg/l	96 h	Leuciscus idus	
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna	
	Algae toxicity	NOEC	> 100 mg/l	3 d	Pseudokirchneriela subcapitata	

**12.2. Persistence and degradability**

No data available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
8042-47-5	White mineral oil (petroleum)			
	OECD 301 F	31,3 %	28	

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**Further information**

Do not flush into surface water or sanitary sewer system.

Low hazard to waters.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

**Waste disposal number of waste from residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

**SECTION 14: Transport information**

**Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN):**

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**14.1. UN number:**

Not applicable. No hazardous material as defined by the transport regulations.

**14.2. UN proper shipping name:**

Not applicable. No hazardous material as defined by the transport regulations.

**14.3. Transport hazard class(es):**

Not applicable. No hazardous material as defined by the transport regulations.

**14.4. Packing group:**

Not applicable. No hazardous material as defined by the transport regulations.

**14.5. Environmental hazards**

Not applicable. No hazardous material as defined by the transport regulations.

**14.6. Special precautions for user**

Not applicable. No hazardous material as defined by the transport regulations.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable. No hazardous material as defined by the transport regulations.

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**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

2004/42/EC (VOC): 0 %

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

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**SECTION 16: Other information**

**Changes**

Changes in chapter: 1 - 16

**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

**Relevant H- and EUH-phrases (Number and full text)**

H304 May be fatal if swallowed and enters airways.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

**Safety Data Sheet** according to Regulation (EC) No 1907/2006

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The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*