

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier ILS Instrument Lubricant

Other means of identification

Not available

Recommended use

Instrument lubricant

Recommended restrictions

None known.

Manufacturer

Hu-Friedy Mfg. Co., LLC

3232 N. Rockwell

Chicago, IL 60618-5982 US Phone: 773.975.6100 Fax: 773.868.3599

Emergency Phone: 1-800-535-5053 Outside US: 001-352-323-3500

2. Hazards Identification

Category 1

Physical hazardsNot classified.Health hazardsAspiration hazard

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be fatal if swallowed and enters airways.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 4% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/Information on Ingredients

Mixture

Chemical nameCommon name and synonymsCAS number%White mineral oil (petroleum)8042-47-510 - 30

Composition comments The exact percentage (concentration) of composition has been withheld as a trade secret in

accordance with paragraph (i) of §1910.1200.

4. First Aid Measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may

cause pulmonary edema and pneumonitis.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

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Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing

General information

media

Treat for surrounding material.

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

General fire hazards

Hazardous combustion

products

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water. Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling

Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat and sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

8042-47-5)

8042-47-5)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
White mineral oil (petroleum) (CAS	PEL	5 mg/m3	Mist.

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
White mineral oil (petroleum) (CAS	TWA	5 mg/m3	Inhalable fraction.

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US. NIOSH: Pocket Guide to Chemical Hazards

Components Value **Form** White mineral oil STEL 10 mg/m3 Mist. (petroleum) (CAS 8042-47-5) TWA 5 mg/m3 Mist.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Chemical goggles are recommended. Eye/face protection

Skin protection

Hand protection Wear protective gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Thermal hazards Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance Milky Physical state Liquid. **Form** Liquid. Color White Odor None

Odor threshold Not available.

6.3 Ha

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Pour point Not available. Specific gravity 0.97 (water=1) Partition coefficient Not available.

(n-octanol/water)

> 200.0 °F (> 93.3 °C) Tag Closed Cup Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. **Explosive limit - upper (%)** Not available. Vapor pressure Not available. Not available. Vapor density

0.97 Relative density Partial Solubility(ies)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity**

10. Stability and Reactivity

Reactivity None known.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Inhalation. Ingestion. Skin contact. Eye contact. Routes of exposure

Information on likely routes of exposure

Ingestion May be fatal if swallowed and enters airways.

Inhalation May be fatal if swallowed and enters airways. Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components **Species Test Results**

White mineral oil (petroleum) (CAS 8042-47-5)

Acute

Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 5000 mg/kg

LC50 Inhalation

LC50 Rat > 2.2 mg/l, 4 Hours

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Not available. **Exposure minutes** Erythema value Not available. Oedema value Not available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Not available. Corneal opacity value Iris lesion value Not available. Conjunctival reddening Not available.

value

Not available. Conjunctival oedema value Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

No data available to indicate product or any components present at greater than 0.1% are Mutagenicity

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

White mineral oil (petroleum) (CAS 8042-47-5) A4 Not classifiable as a human carcinogen.

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IARC Monographs. Overall Evaluation of Carcinogenicity

White mineral oil (petroleum) (CAS 8042-47-5) Volume 33, Supplement 7 - 3 Not classifiable as to carcinogenicity

to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Teratogenicity Specific target organ toxicity - Not classified. Not classified.

single exposure

Specific target organ toxicity -

Aspiration hazard

Not classified.

repeated exposure

May be fatal if swallowed and enters airways.

Chronic effects

Prolonged inhalation may be harmful.

Further information Name of Toxicologically **Synergistic Products**

Not available. Not available.

12. Ecological Information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

No data available. Bioaccumulative potential No data available. Mobility in soil Mobility in general Not available

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Canadian federal regulations

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

White mineral oil (petroleum) (CAS 8042-47-5) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

White mineral oil (petroleum) (CAS 8042-47-5) 1 %

WHMIS status Not Controlled

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

US CAA Section 612 SNAP Program: Listed substance

White mineral oil (petroleum) (CAS 8042-47-5) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

N

hazardous substance SARA 311/312 Hazardous

Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Administration (FDA) Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Hazardous Substances (Director's): Listed substance

White mineral oil (petroleum) (CAS 8042-47-5) Liste

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Minnesota Haz Subs: Listed substance

White mineral oil (petroleum) (CAS 8042-47-5) Listed.

US - Texas Effects Screening Levels: Listed substance

White mineral oil (petroleum) (CAS 8042-47-5) Listed.

US. Massachusetts RTK - Substance List

White mineral oil (petroleum) (CAS 8042-47-5) Listed.

US. Pennsylvania RTK - Hazardous Substances

White mineral oil (petroleum) (CAS 8042-47-5) Listed.

US. Rhode Island RTK

Not regulated.

Inventory status

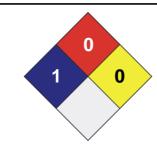
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information







DisclaimerThe information in the sheet was written based on the best knowledge and experience currently

available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty,

expressed or implied, is made and supplier will not be liable for any losses, injuries or

consequential damages which may result from the use of or reliance on any information contained

in this document. 07-August-2014 01-August-2014

01-August-2017

Issue date

Effective date

Expiry date

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.