

# **Safety Data Sheet**

Issuing Date 06-Jun-2014 Revision Date 21-Jul-2015 Version 5

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product name SeaStar Hydraulic Steering Fluid

Other means of identification

**Product Code(s)** HA5430H, HA5440H, HA5490H, HA5458H

Synonyms No information available

Recommended use of the chemical and restrictions on use

**Recommended Use** Power Steering Fluid, Transmission Fluid, Lubricant. Hydraulic Fluid, Lubricant.

Uses advised against No information available

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1
Aspiration toxicity	Category 1

#### Label elements

# **EMERGENCY OVERVIEW**

# DANGER

#### Hazard statements

May cause an allergic skin reaction May be fatal if swallowed and enters airways



Appearance Transparent, yellow tinted

Physical state -

Odor Mild petroleum odor

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

#### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instruction on this label)

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

# **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other information

• May be harmful in contact with skin

Unknown Aquatic Toxicty 0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common NameHydrocarbon Lubricating Fluid.Chemical FamilyPetroleum hydrocarbon mixture.Chemical nature of the preparationPetroleum Lubricating Fluid.

Chemical name	CAS-No	Weight %	Trade secret
Petroleum distillates, hydrotreated light paraffinic	64742-55-8	54.35	*
I-Decene, Dimer, Hydrogenated	68649-11-6	35.44-39.38	*
I-Decene, Homopolymer, Hydrogenated	68037-01-4	1.97-5.91	*
Methacrylate copolymer	Proprietary	0.79-1.57	*
Alkoxylated long-chain alkyl amine	Proprietary	0.05-0.27	*
Alkaryl amine	Proprietary	0.05-0.27	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### First aid measures

**General advice** No hazards which require special first aid measures.

**Eye contact** Flush eyes for 30 minutes with water. Get medical attention if irritation persists.

Skin contact Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by

washing with mild soap and water or a waterless hand cleaner. If irritation or redness

develops and persists, seek medical attention.

**Inhalation** Move exposed persons to fresh air. Consult medical personnel if breathing issues occur.

**Ingestion** Do NOT induce vomiting. Consult a physician.

# Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

Small Fires Always use personal safety equipment. Follow appropriate personal safety procedures, and

extinguishing media.

**Large Fires** Contact emergency personnel.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

Combustible material.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

**Personal protection** Avoid contact with the skin and the eyes. Eye protection or face shield should be used if

material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as

material can cause surfaces to become very slippery.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Cover with earth, sand, or other non-combustible material followed with plastic sheets to

minimize spreading or contact with rain.

Methods for cleaning up Excess liquid material can be collected using a scoop or shovel and stored for recycling or

disposal. Prevent material from entering drains or waterways.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if

material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70 degrees C (158 F). It is recommended to pump or transfer material at

ambient temperature.

#### Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Keep containers closed when not in use. **Storage Conditions** 

> Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: store in cool dry area. Always follow local, state, and federal guidlines for storage of material for amount stored.

**Incompatible Products** Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product does not contain any hazardous materials with occupational exposure limits **Exposure guidelines** 

established by the region specific regulatory bodies.

Appropriate engineering controls

**Engineering Controls** Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face Protection** If splashes are likely to occur, wear:. Goggles. Eye/face Protection.

Skin and body protection Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin

wash with soap and water.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Remove and wash contaminated clothing before re-use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state

**Appearance** Transparent, yellow tinted fluid Odor Mild petroleum odor No information available **Odor threshold** 

Color light yellow

Values Remarks • Method Property

No information available Melting point/freezing point No information available **Boiling Point/Range** No information available

164 °C / 327 °F Flash point Cleveland open cup (COC) No information available **Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air

No information available Upper flammability limit: Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available

Specific gravity 0.844

Water solubility No information available Solubility in other solvents No information available **Partition coefficient** No information available

**Autoignition temperature** 

**Decomposition temperature** No information available

### SeaStar Hydraulic Steering Fluid

Kinematic viscosity14.1-15.1 @40C mm2/sDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

Other information

Softening pointNo information availableVOC ContentNo information availableDensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under normal conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

#### **Conditions to avoid**

Excessive heat. High energy sources of ignition.

# **Incompatible materials**

Strong oxidizing agents.

# **Hazardous decomposition products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Product Information No data available

**Inhalation** Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye contact** Avoid contact with eyes. May cause slight irritation.

**Skin contact** May cause eye/skin irritation. Prolonged skin contact may defat the skin and produce

dermatitis.

Ingestion Do NOT taste or swallow. Potential for aspiration if swallowed.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated	-	-	= 3900 mg/m³ (Rat) 4 h
light paraffinic			
64742-55-8			

# Information on toxicological effects

Symptoms No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity**Carcinogenicity
No information available.
No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates,	-	Group 1	-	X
hydrotreated light paraffinic		-		

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64742-55-8

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

**Aspiration hazard** May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Aquatic Toxicty 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

1.57% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, hydrotreated light	-	5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L
paraffinic 64742-55-8		mg/L LC50	EC50
I-Decene, Homopolymer, Hydrogenated 68037-01-4	>1000: 72 h Alga mg/L EL50	-	>1000: 48 h Daphnia magna mg/L EL50

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

IATA PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR

TRANSPORT UNDER ICAO TI OR IATA DGR

# 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply Does not comply **ENCS IECSC** Does not comply Does not comply **KECL PICCS** Does not comply **AICS** Does not comply

# Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# **U.S. State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Petroleum distillates, hydrotreated	-	X	-
light paraffinic			
64742-55-8			

#### U.S. EPA Label Information

EPA Pesticide registration number Not Applicable

16. OTHER INFORMATION	

NFPA Health hazards 0 Flammability 1 Instability 0 Physical and Chemical

Hazards -

HMIS Health hazards 0 Flammability 1 Physical hazards 0 Personal protection X

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**Revision Note** 

SDS sections updated 1

#### **Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**