

1. Identification

# SAFETY DATA SHEET

dentification	
Product name:	<b>68HP</b> (4316-76, 4316-71)
Additional identification Chemical name:	Carboxylic ester
Recommended use and rest	riction on use
Recommended use:	Not determined.
Restrictions on use:	Not determined.
Details of the supplier of the Supplier	e safety data sheet
Company Name:	THE LUBRIZOL CORPORATION
Address:	29400 LAKELAND BOULEVARD
	WICKLIFFE, OH 44092-2298
	US
Telephone:	(440)943-1200
Emergency telephone numb	
	NCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300
(LUBRIZOL)	
()	
Hazard(s) identification	

# Hazard Classification

	Not classified
Label Elements:	
Hazard Symbol:	No symbol
Signal Word:	No signal word.
Hazard Statement:	not applicable
Precautionary Statement:	not applicable
Other hazards which do not result in GHS classification:	None identified.

## 3. Composition/information on ingredients

General information:

The components are not hazardous or are below required disclosure limits.

4. First-aid measures	
Ingestion:	Treat symptomatically. Get medical attention.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.
Skin Contact:	Wash with soap and water. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.



Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.
Most important symptoms/effec	ts, acute and delayed
Symptoms:	See section 11.
Indication of immediate medical	attention and special treatment needed
Treatment:	Treat symptomatically.
5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) exting	uishing media
Suitable extinguishing media:	CO2, Dry chemical or Foam. Water can be used to cool and protect exposed material.
Unsuitable extinguishing media:	Not determined.
Specific hazards arising from the chemical:	See section 10 for additional information. Water may cause splattering. Container may rupture on heating.
Special protective equipment ar Special fire fighting procedures:	nd precautions for firefighters No data available.
Special protective equipment for fire-fighters:	Recommend wearing self-contained breathing apparatus.
6. Accidental release measures	S
Personal precautions, protective equipment and emergency procedures:	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas.
Methods and material for containment and cleaning up:	Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Keep containers closed when not in use. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product.
Maximum Handling Temperature:	Not determined.



Conditions for safe storage, including any incompatibilities:	Store away from incompatible materials. See section 10 for incompatible materials.
Maximum Storage Temperature:	Not determined.
8. Exposure controls/personal	protection
Control Parameters:	
Occupational Exposure Limits None of the components hav	ve assigned exposure limits.
Appropriate engineering controls:	Use material in well ventilated area only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.
Individual protection measures, such as personal protective equipment	
General information:	Use personal protective equipment as required.
Eye/face protection:	If contact is likely, safety glasses with side shields are recommended.
Skin Protection	
Hand Protection:	Neoprene. Suitable gloves can be recommended by the glove supplier.
Other:	Long sleeve shirt is recommended.
Respiratory Protection:	Use respirator with an organic vapor cartridge if exposure limit is exceeded. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Use self- contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

# 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Light yellow
Odor:	Mild
Odor threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	>= 518 °F (270 °C) (Cleveland Open Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explos	ive limits
Flammability limit - upper (%):	No data available.



Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	0.977 60.1 °F (15.6 °C)
Solubility(ies)	
Solubility in water:	Slightly Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	Approximate 72.3 mm2/s(162.1 °F (72.3 °C))Approximate 9.8 mm2/s(100 °C (212 °F))
Other information	

Pour Point Temperature:

Approximate -38 °F (-39 °C)

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Will not occur.
Conditions to Avoid:	Do not expose to excessive heat, ignition sources, or oxidizing materials.
Incompatible Materials:	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

# 11. Toxicological information

Information on likely routes of exposure	
Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Information on toxicological eff	ects
Acute toxicity	
Oral	
Product:	LD 50 (Rat): > 2,000 mg/kg (Read across) Not classified Ingestion of this material may cause nausea and diarrhea.
Dermal	
Product:	LD 50 (Rabbit): > 2,000 mg/kg (Read across) Not classified
Inhalation	
Product:	Not classified for acute toxicity based on available data.



Skin Corrosion/Irritation: Product:	Prolonged or repeated contact may cause irritation. Remarks: Not classified as a primary skin irritant.
Serious Eye Damage/Eye Irritation Product:	: Remarks: Not classified as a primary eye irritant.
Respiratory sensitization:	No data available
Skin sensitization: Product:	Classification: Not a skin sensitizer. (Read across) Not a skin sensitizer.
Specific Target Organ Toxicity - Si Product:	<b>ingle Exposure:</b> If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Aspiration Hazard:	No data available
Chronic Effects	
Carcinogenicity:	No data available
IARC Monographs on the Evaluation No carcinogenic components identified	on of Carcinogenic Risks to Humans: ed
US. National Toxicology Program	
US. OSHA Specifically Regulated S No carcinogenic components identified	Substances (29 CFR 1910.1001-1050): ed
Germ Cell Mutagenicity:	No data available
Reproductive toxicity:	No data available
Specific Target Organ Toxicity - R	Repeated Exposure: No data available
12. Ecological information	
Ecotoxicity Fish	
Product:	LC 50 (Fathead Minnow, 4 d): > 10,000 mg/l
Aquatic Invertebrates Product:	EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l



Toxicity to Aquatic Plants Product:	EC 50 (Green algae (Selenastrum capricornutum), 4 d): > 1,000 mg/l
Toxicity to soil dwelling organism	<b>s</b> No data available
Sediment Toxicity	No data available
Toxicity to Terrestrial Plants	No data available
Toxicity to Above-Ground Organis	sms No data available
Toxicity to microorganisms Product:	EC 50 (Sludge, 0.1 d): > 10,000 mg/l
Persistence and Degradability Biodegradation Product:	Inherent Sludge, 71 %, 28 d, Readily biodegradable
Bioaccumulative Potential Bioconcentration Factor (BCF)	No data available
Partition Coefficient n-octanol / wa	
Mobility:	No data available
Other Adverse Effects:	No data available.
13. Disposal considerations	
with ap Since	nent, storage, transportation, and disposal must be in accordance oplicable Federal, State/Provincial, and Local regulations. emptied containers retain product residue, follow label warnings even ontainer is emptied.
Contaminated Packaging: Contai	ner packaging may exhibit hazards.
14. Transport information	

# 14. Transport information

# DOT

Not regulated.

# IMDG

Not regulated.

# ΙΑΤΑ

Not regulated.

# Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code None known.

Shipping descriptions may vary based on mode of transport, quantities ,temperature of the material, package size, and/or origin and destination It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.



# 15. Regulatory information

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories None known.

#### SARA 302 Extremely Hazardous Substance SARA 304 Emergency Release Notification SARA 311/312 Hazardous Chemical SARA 313 (TRI Reporting)

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). For additional information please contact Lubrizol Customer Assistance: America(s): AmerLZAMCustomerAssistance@Lubrizol.com; Europe: EMEAICustomerAssistance@Lubrizol.com; Asia: APCustomerAssistance@Lubrizol.com

### **US State Regulations**

#### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

### **Inventory Status**

Australia (AICS)

All components are in compliance with chemical notification requirements in Australia.

#### Canada (DSL/NDSL)

May require notification before sale under Canadian regulations.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

#### European Union (REACh)

To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH, or e-mail us at REACH\_MSDS\_INQUIRIES@Lubrizol.com

Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

This product requires notification before sale in New Zealand.

#### Switzerland (SWISS)

This product requires notification before sale in Switzerland.

Taiwan (TCSCA)

This product requires notification before sale in Taiwan.

United States (TSCA)

All components of this material are on the US TSCA Inventory.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.



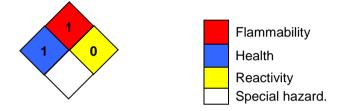
# 16.Other information, including date of preparation or last revision

# **HMIS Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	03/07/2015
Version #:	1.0
Source of information:	Internal company data and other publically available resources.
Further Information:	Contact supplier (see Section 1)
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