

Revision Date: 05.05.2023

# SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

# 1. Identification

Identification

Product name: RL 32H (4314-41, 4314-44, 4314-45, 4314-46)

Additional identification

Chemical name: Carboxylic ester

Recommended use and restriction on use

Recommended use: Refrigeration Lubricants.

Restrictions on use: None identified.

Details of the supplier of the safety data sheet

**Supplier** 

Company Name: Nu-Calgon Wholesaler, Inc.

Address: 2611 Schuetz Road

St. Louis, MO 63043

US

Telephone: +1 800-554-5499 / +1 314-469-7000

**Emergency telephone number:** 

FOR TRANSPORT EMERGENCY CALL CHEMTREC 24-HOUR NUMBER (+1)703 527 3887 OR WITHIN USA 1 800 424 9300 (CCN13437)

## 2. Hazard(s) identification

**Hazard Classification** 

Not classified

**Label Elements:** 

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements: Not applicable

# 3. Composition/information on ingredients

#### **Mixtures**

**Composition Comments:** The components are not hazardous or are below required disclosure limits.

Revision Date: 05.05.2023

#### 4. First-aid measures

**Ingestion:** Treat symptomatically. Get medical attention. Do not induce vomiting.

Rinse mouth. Get medical attention if symptoms occur.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Skin Contact:** Take off contaminated clothing and wash before re-use. Wash with soap

and water. If skin irritation occurs, get medical attention.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Remove contact lenses, if present and easy to do. Continue rinsing.

Most important symptoms/effects, 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) extinguishing media

Suitable extinguishing

media:

CO2, dry chemical, foam, water spray, water fog.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional

information.

Special protective equipment and precautions for fire-fighters

Special fire-fighting

No data available.

procedures:

Special protective equipment for fire-fighters:

Recommend wearing self-contained breathing apparatus.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Personal Protective Equipment must be worn, see Personal Protection

Section for PPE recommendations.

**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.

Revision Date: 05.05.2023

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.

# 7. Handling and storage

**Precautions for safe handling:** Observe good industrial hygiene practices. Provide adequate ventilation.

Wear appropriate personal protective equipment.

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 have assigned exposure limits.

Appropriate engineering

controls:

No special requirements under ordinary conditions of use and with

adequate ventilation.

#### 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.

Nitrile.

Other: No data available.

**Respiratory Protection:** A respiratory protection program compliant with all applicable regulations

must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into

confined space, for other poorly ventilated areas and for large spill clean-up

sites.

**Hygiene measures:** Observe good industrial hygiene practices.

# 9. Physical and chemical properties

Revision Date: 05.05.2023

**Appearance** 

Physical state: liquid Form: liquid

Colorless to yellow

Odor: Mild

Odor threshold:

pH:

No data available.

Not applicable

No data available.

Boiling Point:

No data available.

No data available.

Flash Point: 270 °C (Tagliabue Open Cup)

**Evaporation rate:**No data available.
Flammability (solid, gas):
No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Vapor density:

Relative density:

No data available.

Solubility(ies)

Solubility in water:
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:** 33.7 mm2/s (40 °C) 5.9 mm2/s(100 °C)

Other information

Pour Point Temperature: Approximate -46 °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. Oxidizing agents. Strong bases.

**Hazardous Decomposition** 

Products:

Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

Revision Date: 05.05.2023

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** Causes mild skin irritation.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity

Oral

Product: Ingestion of this material may cause gastric disturbances. Not

classified for acute toxicity based on available data.

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product: Remarks: Causes mild skin irritation. Prolonged or repeated

contact may cause irritation.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

No data available

Specific Target Organ Toxicity - Single Exposure:

Product: If material is misted or if vapors are generated from heating,

exposure may cause irritation of mucous membranes and the upper

respiratory tract.

No data available

**Aspiration Hazard:** 

No data available

**Chronic Effects** 

Carcinogenicity:

No data available

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Revision Date: 05.05.2023

# **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

**Germ Cell Mutagenicity:** 

No data available

Reproductive toxicity:

No data available

## **Specific Target Organ Toxicity - Repeated Exposure:**

No data available

# 12. Ecological information

# **Ecotoxicity**

**Fish** 

No data available

**Aquatic Invertebrates** 

No data available

**Toxicity to Aquatic Plants** 

No data available

Toxicity to soil dwelling organisms

No data available

**Sediment Toxicity** 

No data available

**Toxicity to Terrestrial Plants** 

No data available

**Toxicity to Above-Ground Organisms** 

No data available

Toxicity to microorganisms

No data available

Persistence and Degradability

Biodegradation

Product: OECD TG 301 B, 63.1 %, 28 d, Readily degradable

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

No data available

Partition Coefficient n-octanol / water (log Kow)

No data available

**Mobility:** 

No data available

Revision Date: 05.05.2023

#### Other adverse effects

No data available

# 13. Disposal considerations

**Disposal instructions:** Treatment, storage, transportation, and disposal must be in accordance

with applicable Federal, State/Provincial, and Local regulations.

Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product

residue which may exhibit hazards of product.

**Contaminated Packaging:** Container packaging may exhibit hazards.

# 14. Transport information

# TDG

Not regulated.

#### **IMDG**

Not regulated.

#### IATA

Not regulated.

## Transport in bulk according to Annex II of MARPOL 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. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

# 15. Regulatory information

#### **HMIRA Status**

Not Registered

## **Inventory Status**

Australia (AIIC)

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

## Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

## China (IECSC)

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

Revision Date: 05.05.2023

#### European Union (REACh)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

## Great Britain (UK REACH)

To obtain information on the UK REACH compliance status of this product, please e-mail REACH@SDSInquiries.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)

All components are in compliance with chemical notification requirements in New Zealand.

#### Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

#### Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

#### Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

#### Turkey (KKDIK)

To obtain information on the KKDIK compliance status of this product, please e-mail REACH@SDSInquiries.com.

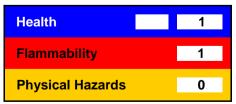
## United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

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

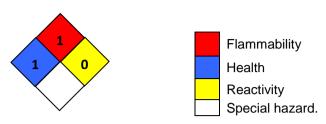
# **HMIS Hazard ID**



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

Revision Date: 05.05.2023

#### **NFPA Hazard ID**



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

Issue Date: 05.05.2023

Version #: 2.1

**Source of information:** Internal company data and other publically available resources.

Further Information: Contact supplier (see Section 1)

Revision(s) are noted by the double bar in the margin and the light gray box.

**Disclaimer:** As the conditions or methods of use are beyond our control, we do not

assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains

the responsibility of the user.