

# SAFETY DATA SHEET

1. Identification	
Identification Product name:	RL 220H PLUS (4318-61, 4318-65, 4318-66)
Additional identification Chemical name:	Carboxylic ester
Recommended use and restric Recommended use: Restrictions on use:	<b>tion on use</b> Refrigeration Lubricants. None identified.
Details of the supplier of the s Supplier	afety data sheet
	Nu-Calgon
\$	2611 Schuetz Road St. Louis MO 63043
	JS 314-469-7000 / 800-554-5499
Emergency telephone number FOR TRANSPORT EMERGENC	: CY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300
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
Other hazards which do not re in GHS classification:	esult None identified.
3. Composition/information of	on ingredients

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

4. First-aid measures

Ingestion:	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/effect	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 Suitable extinguishing media:	uishing media CO2, Dry chemical or Foam. Water can be used to cool and protect exposed material. CO2, dry chemical, foam, water spray, water fog.
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 an 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	
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.
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.
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. 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 have 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:	Use nitrile or neoprene gloves. Suitable gloves can be recommended by the glove supplier.
Other:	Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material.
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 prop	portios

# 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Light yellow
Odor:	Mild
Odor threshold:	No data available.
pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	212 °F (100 °C)
Flash Point:	> 451 °F (233 °C) (Cleveland Open Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive	ve 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:	< 0.01 kPa (20 °C 68 °F)
Vapor density:	No data available.
Relative density:	1 - 1.05 68 °F (20 °C)
Solubility(ies)	
Solubility in water:	Slightly Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	> 752 °F (400 °C)
Decomposition temperature:	No data available.
Viscosity:	220 mm2/s(104 °F(40 °C))19 mm2/s(100 °C(212 °F))
Other information	
Pour Point Temperature:	-27 °C
i our i onit remperature.	-21 0

# 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 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 e. Inhalation:	<b>xposure</b> No data available.
Ingestion:	No data available.
Skin Contact:	Causes mild skin irritation.
Eye contact:	No data available.
Information on toxicological effe Acute toxicity Oral Product:	Not classified for acute toxicity based on available data. May cause
<b>Dermal</b> Product:	irritation of the gastrointestinal tract. Not classified for acute toxicity based on available data. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts.
Inhalation Product:	Not classified for acute toxicity based on available data.
Skin Corrosion/Irritation: Product:	Remarks: Causes mild skin irritation.
Serious Eye Damage/Eye I Product:	rritation: Remarks: Not classified as a primary eye irritant.
Respiratory sensitization:	No data available
Skin sensitization:	No data available
Specific Target Organ Tox	icity - Single Exposure: No data available
Aspiration Hazard:	No data available
Chronic Effects Carcinogenicity:	No data available
IARC Monographs on the I No carcinogenic components	Evaluation of Carcinogenic Risks to Humans: s identified
US. National Toxicology Provide the No carcinogenic components	rogram (NTP) Report on Carcinogens: s identified

US. OSHA Specifically Regulate No carcinogenic components ident	d Substances (29 CFR 1910.1001-1050), as amended: tified	
Germ Cell Mutagenicity:	No data available	
Reproductive toxicity:	No data available	
Specific Target Organ Toxicity - No data available	Repeated Exposure:	
12. Ecological information		
Ecotoxicity Fish		
FISN	No data available	
Aquatic Invertebrates	No data available	
Toxicity to Aquatic Plants	No data available	
Toxicity to soil dwelling organis	ms No data available	
Sediment Toxicity	No data available	
Toxicity to Terrestrial Plants	No data available	
Toxicity to Above-Ground Organ	nisms No data available	
Toxicity to microorganisms	No data available	
Persistence and Degradability Biodegradation	No data available	
Bioaccumulative potential Bioconcentration Factor (BCF)	No data available	
Partition Coefficient n-octanol /	water (log Kow) No data available	
Mobility:	No data available	
Other adverse effects	No data available	6/9

#### 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

#### DOT

Not regulated.

#### IMDG

Not regulated.

#### ΙΑΤΑ

Not regulated.

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

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. 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. During 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

#### **US Federal Regulations**

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

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

None present or none present in regulated quantities. Superfund amendments and reauthorization act of 1986 (SARA)

#### SARA 311 Classifications

Not classified

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

**US State Regulations US.** California Proposition 65 No ingredient requiring a warning under CA Prop 65. **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. European Union (REACh) To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInguiries.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)

This product contains a substance that is not listed on the Switzerland Inventory of Notified New Substances.

Taiwan (TCSCA) This product requires notification before sale in Taiwan.

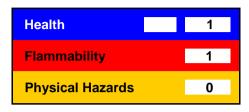
United States (TSCA)

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.

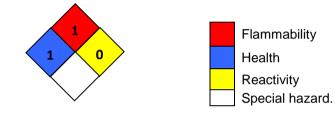
### 16.Other information, including date of preparation or last revision

#### **HMIS Hazard ID**



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

#### **NFPA Hazard ID**



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

Issue Date:	12/02/2021
Version #:	3.2
Source of information:	Internal company data and other publically available resources.
Further Information:	Contact supplier (see Section 1)
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.