

Revision Date: 03/08/2015

Sid Harvey item # 998E02200 & 998E02201

SDS # Z0310

SAFETY DATA SHEET

1. Identification

Identification

Product name: RL 32-3MAF (4314-64, 4314-66, 4314-65, 4314-67)

Additional identification

Chemical name: Mixture

Recommended use and restriction on use

Recommended use: Restrictions on use:Not determined.
Not determined.

Details of the supplier of the safety data sheet

Supplier

Company Name: THE LUBRIZOL CORPORATION
Address: 29400 LAKELAND BOULEVARD
WICKLIFFE, OH 44092-2298

US

Telephone: (440)943-1200

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300

(LUBRIZOL)

2. 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.



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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/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 or Foam. Water can be used to cool and protect

exposed material.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

See section 10 for additional information. Keep away from heat, sparks and

open flame. Water may cause splattering. Container may rupture on

heating.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective

equipment for fire-fighters:

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants,

gloves and boots.

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.

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 away from ignition sources such as heat, sparks and open flame. No smoking. 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.



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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: Neoprene. Suitable gloves can be recommended by the glove supplier.

Other: Long sleeve shirt is recommended. Wear apron or protective clothing in case

of contact.

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: Colorless to yellow

Odor: Mild

Odor threshold:

pH:

No data available.

Flash Point: 464 °F (240 °C) (Cleveland Open Cup)



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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 (%):

No data available.

No data available.

No data available.

Vapor pressure:

Vapor density:

Relative density:

No data available.

0.981 68 °F (20 °C)

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Auto-ignition temperature:
No data available.
No data available.
No data available.

Viscosity: 31.2 mm2/s (104 °F (40 °C)) 5.6 mm2/s (100 °C (212 °F))

Other information

Pour Point Temperature: -69 °F (-56 °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 effects

Acute toxicity

Oral

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

Dermal

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



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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:

No data available

Specific Target Organ Toxicity - Single Exposure:

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

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

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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



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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

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.

13. Disposal considerations

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

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

Since emptied containers retain product residue, follow label warnings even

after container is emptied.

Contaminated Packaging: Container packaging may exhibit hazards.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

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



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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: EMEAlCustomerAssistance@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)

All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

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 (FNCS)

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.

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.



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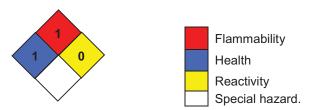
16.Other information, including date of preparation or last revision

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: 03/08/2015

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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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.





Material Safety Data Bulletin

1. PRODUCT AND COMPANY IDENTIFICATION

APPROVAL DATE: 7/5/02

PRODUCT NAME: Copeland Ultra 32CC

ICI Americas Inc

Uniqema Corporate Center
1000 Uniqema Boulevard
New Castle, Delaware 19720-2790
ICI Operator (24 hr.): (302) 574-5000
Medical Emergency (24 hr.): (888) 456-6218
Chemical Emergency (24 hr.) Involving Transportation
Spills, Leaks, Fires, Accidents: (800) 424-9300

General: Refrigeration Lubricant

Alternate Names:

2. COMPOSITION/INFORMATION ON INGREDIENTS

 INGREDIENTS
 New Jersey TSR
 % (w/w)
 OSHA PEL

 Polyol Ester
 08306620-5803P
 >99
 Not listed

 Additives
 <1</td>
 Not listed

Ingredients not precisely identified are proprietary or nonhazardous.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Pale yellow, clear liquid

Physical: None Health: None

Hazard summary as defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200.

Potential Health Effects:

General: This health assessment is based on a consideration of the composition of this

product.

Repeated or prolonged skin contact may result in irritation. High concentrations of aero-

sols or mists may be slightly irritating to the upper respiratory tract.

Read the entire MSDS for a thorough evaluation of the hazards.

4. FIRST AID MEASURES

Skin Contact: Remove contaminated clothing. Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footware before reuse.

Eye Contact: Irrigate with eyewash solution or clean water, holding eyelids apart, for at least 10 minutes. if redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

Inhalation: Remove patient from exposure. If a cough or other respiratory symptoms develop, consult medical personnel.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water and give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel.

Note to Physician: This material is considered to be only slightly toxic. The potential complications associated with removing material from the GI tract, the amount ingested, and the time since ingestion should be taken into account when developing a treatment plan.

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards: Low fire hazard. Unlikely to ignite except in high heat flux conditions. Thermal decomposition will evolve irritant vapors.

Flammable limits (STP): No data

Extinguishing media: Carbon dioxide, dry chemical or appropriate foam. If water is used, use with care to avoid possible violent production of steam.

Fire fighting equipment: Use self-contained breathing apparatus with full facepiece and protective clothing.

Flashpoint (Deg C): 254 (open cup)
Autoignition temperature (Deg C): 390

Explosive Power: None

Combustion Products: Carbon dioxide, Carbon monoxide NFPA Hazard ID: Health: 1, Flammability: 1, Reactivity: 0,

Special Hazard: None

6. ACCIDENTAL RELEASE MEASURES

Wear skin protection during clean-up. Contain and absorb large spillages onto an inert, non-flammable absorbent carrier (such as earth or sand). Do not allow to enter drains, sewers, or waterways. Shovel into a chemical waste container for disposal or recovery.

7. HANDLING AND STORAGE

Handling: Avoid prolonged or recurring skin contact. Avoid inhalation of high concentrations of mists or aerosols.

Storage Requirements: Avoid ingress of moisture by keeping containers properly sealed when not in use. Product application requires that the product remain dry and free of excessive moisture pick-up. Keep away from strong oxidizing agents.

Suitable Containers: Mild Steel.

Storage Temperature: Ideal storage temperature is 60 to 100 deg F.

Storage Life: Two years, minimum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines: No OSHA PELS or ACGIH TLVs have been assigned. Minimize exposure in accordance with good industrial hygiene practice.

Engineering controls: Provide eyewash station and safety shower in work area. Use ventilation adequate to maintain safe levels.

Respiratory protection: Not normally needed, if controls are adequate. If needed, use MSHA-NIOSH approved respirator for organic vapors.

Protective clothing: Gloves determined to be impervious under conditions of use. Depending on conditions of use, additional protection may be required, such as apron, arm covers, or full body suit. Wash contaminated clothing before rewearing.

Eye protection: Chemical tight goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow, clear liquid

Odor: Mild

Flash point (deg C): 254 (open cup)
Boiling point (deg C): >300

Vapor pressure (mm Hg at 20 deg C): 6.5 Specific gravity (20/20 deg C): 0.972 Solubility in water: Insoluble Solubility (other): No data

Pour point (deg C): -45

Kinematic viscosity (cSt at 40 deg C): 30.8

(cSt at 100 deg C): 5.6

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Highly unlikely under intended handling and use.

See Section 5.

Combustion products: Carbon dioxide, Carbon monoxide.

Hazardous polymerization: Will not occur.

11.TOXICOLOGICAL DATA

Possible human health effects:

Inhalation: High concentrations of mist may be slightly irritating to the upper respiratory tract. Thermal decomposition will evolve irritant vapors.

Skin contact: Repeated or prolonged skin contact may result in irritation. Not a skin irritant per OSHA Hazard Communication Standard, 29 CFR 1910.1200. It is unlikely to be a skin sensitizer following contact with human skin.

Eye contact: Unlikely to cause eye irritation in man.

Ingestion: Low oral toxicity.

Carcinogenicity: The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Mutagenicity: There is no substantial evidence of mutagenic potential.

Reproductive effects: No information is available and no adverse effects are

anticipated.

Teratogenicity and Fetotoxicity: No information is available and no adverse effects are anticipated.

12. ECOLOGICAL INFORMATION

Persistency and degradation: The product is substantially biodegradable in water. Effects on effluent treatment: Not determined.

13. DISPOSAL CONSIDERATIONS

Disposal method: Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container disposal: Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

14. TRANSPORT INFORMATION

DOT, IMO, IATA/ICAO class: Not regulated.

15. REGULATORY INFORMATION

OSHA classification:

Physical: Not regulated. Health: Not regulated.

TSCA (Toxic Substances Control Act) Regulations: All ingredients are on the TSCA Chemical Substances Inventory.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372): This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

Controlled Products Regulations (WHMIS) Classification: Not regulated. IARC Classification: None of the components of this product are listed on IARC.

16. OTHER INFORMATION

HMIS Ratings: Health Hazards: 1 Flammability Hazards: 1 Reactivity Hazards: 0

Personal Protection: See MSDS Section 8

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