



Safety Data Sheet

ZEROL® RFL 68-EP

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Trade Name: ZEROL® RFL 68-EP

Revision Date: 5/26/23

Created Date: 5/26/23

1.2 Relevant identified uses of the substance or mixture and uses advised against

Lubricant

1.3 Details of the supplier of the safety data sheet

Shrieve Chemical Products

1442 Lake Front Circle
Suite 500

The Woodlands, TX 77380 US

phone: (800) 367-4226 Customer Service

e-mail: cust-serv@shrieve.com

website: www.shrieve.com

1.4 Emergency telephone number

CHEMTREC: (800) 424-9300 (USA)

+1-703-741-5970 (International)

Poison Control: (800) 222-1222 (USA)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute Toxicity (Oral), Category 4

2.2 Label elements



Signal Word Warning

Hazard Statements

H302-Harmful if swallowed.

Precautionary Statements

Response

P301+P312-IF SWALLOWED: call a POISON CENTER or doctor IF you feel unwell.

2.3 Other hazards

None known.

2.4 Unknown Acute Toxicity (US)

None known.

SECTION 3: Composition / information on ingredient(s)

Trade Name: ZEROL® RFL 68-EP

SDSID: SDS0293

Revision: 1

Revision Date: 5/26/23

Page 1 of 7



Safety Data Sheet

ZEROL® RFL 68-EP

Chemical Name	CAS Number	EC #	Concentration % by Weight
ZEROL® RFL 68-EP	-		100

Additional Information

Ingredients and composition are withheld as trade secret in accordance with 29CFR1910.1200(i).

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes	In case of adverse health effects seek medical advice.
After inhalation	Remove to fresh air.
After skin contact	Rinse with running water and soap.
After eye contact	Rinse immediately with plenty of running water.
After ingestion	Rinse mouth with water, then drink one or two glasses of water.
Self-protection of the first aider	None known.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None known.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray, alcohol-resistant foam, extinguishing powder, carbon dioxide.
Unsuitable extinguishing media	High pressure waterjet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in fires.

5.3 Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool exposed containers with water spray after extinguishing fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing and gloves.

6.2 Environmental precautions

Do not empty into drains/surface water/ground water. Inform authorities in the event of product spillage to water courses or sewage system.

6.3 Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

6.4 Reference to other sections

None known.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Trade Name: ZEROL® RFL 68-EP

SDSID: SDS0293

Revision:

1

Revision Date:

Page 2 of 7

5/26/23



Safety Data Sheet

ZEROL® RFL 68-EP

Ensure that workrooms are adequately ventilated. Avoid spraying/aerosol generation. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place. Keep away from heat. Protect from direct sunlight. When storing in tanks above 140°F/60°C, cover with a layer of nitrogen-protective gas. Do not store together with reductants or oxidants.

7.3 Incompatibilities/Specific end uses(s)

Incompatibilities None known.
Specific end use(s) None known.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None known.

8.2 Engineering Controls/Exposure Controls

Engineering controls Eye washes and showers for emergency use.
Environmental exposure controls None known.

8.3 Protective Measures

Eye/face protection Tight sealing safety goggles.
Hand protection Use chemically resistant gloves; appropriate materials are PVC. Nitrile.
Other Skin protection Wear full protective clothing and chemical resistant gloves to prevent prolonged skin contact.
Other protection None known.
Respiratory protection Use appropriate protection if there is risk of breathing the mists or vapors or heated materials.
General hygiene consideration Wash hands, forearms and face before eating, drinking, smoking and using the restroom. Launder contaminated clothing before re-use.
Thermal hazards None known.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value
Appearance	Clear.
Autoignition Temperature	None known.
Boiling Point	None known.
Colors	Yellow.
Decomposition Temperature	None known.
Density	0.998 g/ml at 68°F/20°C.
Evaporation Rate	None known.
Flash Point	>392°F/200°C.
Melting/Freezing Point	None known.
Odor	Almost odorless.
Odor Threshold (Detection)	None known.
Specific Gravity	None known.
State of Matter	Liquid.
Vapor Density	None known.
Vapor Pressure	None known.



Safety Data Sheet

ZEROL® RFL 68-EP

Viscosity	68 cSt at 104°F/40°C.
Water Solubility- Qualitative	Partially soluble.
pH Value	None known.

9.2 Other information

None known.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong acids and oxidizers.

10.6 Hazardous decomposition products

Can decompose slowly with localized heating above 302°F/150°C.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Source

Skin contact	None known.
Eye contact	None known.
Inhalation	None known.
Ingestion	None known.
Symptoms related to characteristics	None known.
Acute effects	Oral LD50: >300-<= 2000 mg/kg.
Chronic effects	None known.

Numerical measures of Toxicity

None known.	
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Skin corrosion/irritation	None known.
Serious eye damage/eye irritation	None known.
Respiratory sensitization	None known.
Skin sensitization	None known.
Carcinogenicity	None known.
Germ cell mutagenicity	None known.
Reproductive toxicity	None known.
Specific target organ toxicity - single exposure	None known.



Safety Data Sheet

ZEROL® RFL 68-EP

Specific target organ toxicity - repeated exposure None known.
Aspiration hazard None known.

SECTION 12: Ecological information

12.1 Toxicity

12.1 Numerical measures of Toxicity None known.

None known.	
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12.2 Persistence and degradability

Not expected to be readily biodegradable.

12.3 Bioaccumulative potential

None known.

12.4 Mobility in soil

None known.

12.5 Results of PBT and vPvB assessment

None known.

12.6 Other adverse effects

None known.

12.7 Additional Information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Handling for disposal None known.

Methods of disposal The preferred options for disposal include reuse, recycling, co-processing, finding a use for by-product, incineration or other thermal destruction at licensed facilities.

Contaminated packaging Clean container thoroughly and dispose to licensed disposal contractor.

SECTION 14: Transport Information

D.O.T/ADR/RID - Ground transportation

14.1 UN number

14.2 UN proper shipping name

Not regulated for transportation by DOT, TDG, IMDG, and ICAO/IATA.

14.3 Transport hazard class(es)

None known.

14.4 Packing group

None known.

Air transport (ICAO/IATA)

14.1 UN number

14.2 UN proper shipping name

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14.3 Transport hazard class(es)

None known.

14.4 Packing group

None known.



Safety Data Sheet

ZEROL® RFL 68-EP

Sea transport (IMDG)

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

Not regulated for transportation by DOT, TDG, IMDG, and ICAO/IATA.

None known.

None known.

14.5 Environmental hazards

None known.

14.6. Special precautions for user

None known.

14.7. Transport in bulk according to Annex II of Marpol112 and the IBC Code

None known.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Country or region

Country or region	Inventory List	Listed or Exempt (yes/no)
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Union	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
South Korea	Korea Existing Chemicals Inventory (KECI / KECL)	Yes
United States of America	Toxic Substance Control Act (TSCA)	Yes

15.2 Chemical Safety Assessment

None known.

SECTION 16: Other Information

Specific Hazard N/A.

HMIS Ratings

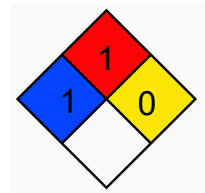
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

1 - Slightly hazardous.

1 - Above 200°F.

0 - Stable, even under fire conditions and will not react with water, etc.

NFPA



Revision Date:

5/26/23



Safety Data Sheet

ZEROL® RFL 68-EP

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