



Silver Fern Chemical, Inc.

Safety Data Sheet

Sodium Ricinoleate

1. IDENTIFICATION

Product Identifier**Product Name****Sodium Ricinoleate****Other identifier:**

Innoleate RA-Na

Recommended use of the chemical and restrictions on use**Recommended Use**

Emulsifier, surfactant

Details of the supplier of the safety data sheet

Silver Fern Chemical Inc

2226 Queen Anne Avenue N.

Seattle, WA 98109

Customer Service: 206-282-3376 / info@silverfernchemical.com

Emergency Telephone Number**Emergency Telephone (24 hr.)**

Infotrac 1-800-535-5053 (US & Canada)

1-352-323-3500 (Outside US & Canada)

2. HAZARDS IDENTIFICATION

Appearance yellow to amber liquid**Physical State** Liquid**Odor** Characteristic**Classification****Corrosive to skin****Category 1C****Serious eye damage/eye irritation****Category 1****Corrosive to metal****Category 1****Oral Toxicity****Category 4****Label elements:****Pictogram:**

Signal Word:
DANGER

Hazard Statements

Causes severe skin burns & eye damage
Harmful if swallowed
Maybe corrosive to metals

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/ eye protection/face protection
Avoid contact with skin and eyes
Use outdoors or in well ventilated area. In case of insufficient ventilation, wear suitable respiratory protection.
Do not eat, drink or smoke when using this product
Wash with plenty of soap & water thoroughly after handling

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN or HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuses
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If discomfort or symptoms of difficulty breathing continue seek medical attention immediately, call a poison center or doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician

Storage

Store locked up. Store in corrosion –resistant container with liner.

Disposal

Dispose of container/contents in accordance with local, state, National, and international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium ricinoleate	5323-95-5	38% - 42%
water	7732-18-5	58% - 62%

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice – Seek medical attention for all burns, regardless of how minor they may seem.

Eye Contact

IF IN EYES: Rinse cautiously with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention if irritation persists.

Skin Contact

IF ON SKIN: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation persists: Get medical advice/ attention.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention if symptoms persist.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor/physician.

Most important symptoms and effects both acute and delayed

General Information: The severity of the symptoms will vary dependent on the concentration and the length of exposure.

Symptoms	The most important known symptoms and effects are described in Section 2 and/or in Section 11
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Dry chemical. Water spray (fog), CO2

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products When strongly heated, as in a fire; this product may produce oxides of carbon & sodium

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protection recommended in Section 8.
Other Information	FOR ALL TRANSPORTATION ACCIDENTS CALL INFOTRAC @ 1-800-535-5053 OR 1-352-323-3500 FOR INTERNATIONAL CALLS.
For Emergency Responders	As with all chemical spills, evacuate the area promptly and keep upwind of the spilled material. In case of spill, keep unnecessary people away; isolate hazard area and deny entry.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Small Spill: Dike spilled material if possible. Collect spilled material with an inert absorbent such as sand or vermiculite. Shovel waste material into properly labeled closed container. Flush area with water to remove residue. Collect rinsate for disposal. Large Spill: Same basic procedure as for small spill.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Use with adequate ventilation.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials.
Incompatible Materials	Oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL (8 hr)	NIOSH
Sodium hydroxide		TWA: 2 mg/m ³	STEL: 2 mg/m ³

Appropriate engineering controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Eyewash stations. Safety Showers.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Use chemical safety goggles and/or full-face shield where splashing is possible.
Skin and Body Protection	Rubber, neoprene, or other impervious gloves are recommended to prevent skin contact. Wear suitable protective clothing and footwear appropriate for the risk of exposure.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. If engineering controls do not keep airborne concentrations below acceptable levels, wear a NIOSH-approved respirator. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2).

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid at 20C	Odor	Characteristic
Appearance	yellow to amber liquid	Odor Threshold	Not determined
Color	Yellow to amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	~11-12	10% by weight in water
Melting Point/Freezing Point	Not Determined	
Boiling Point/Boiling Range	Not Determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Liquid-not applicable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.024 @ 25C	
Water Solubility	Soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	

Oxidizing Properties
VOC Content (%)

Not an oxidizer
Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Not determined

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children. Avoid excessive heat for long periods of time.

Incompatible Materials

Oxidizers.

Hazardous Decomposition Products

When strongly heated, as in a fire, this product may produce oxides of sodium and carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Primary routes of exposure for liquids are ingestion and inhalation, but may include eye or skin contact.

Acute Toxicity /Effects

Rat

30,000 mg/kg (estimated)
Corrosive to skin
Serious eye damage

Chronic Toxicity /Effects

Carcinogenicity – No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC

Additional Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not determined

Acute Toxicity

Not determined

Bioaccumulative potential

Not data available

Mobility in soil

The product is soluble in water

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT - Land Transport

UN/ID No	UN1760
Proper Shipping Name	Corrosive liquids, n.o.s. (contains sodium hydroxide)
Hazard class	8
Packing Group	III

IATA - Air Transport

UN/ID No	UN1760
Proper Shipping Name	Corrosive liquids, n.o.s. (contains sodium hydroxide)
Hazard class	8
Packing Group	III

IMDG - Sea Transport

UN/ID No	UN1760
Proper Shipping Name	Corrosive liquids, n.o.s. (contains sodium hydroxide)
Hazard class	8
Packing Group	III
	No

15. REGULATORY INFORMATION**International Inventories**

TSCA	Listed
NDSL	Listed
IECSC	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
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Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)
 This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65
 This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	D

Issue Date: 2/1/2019
 Revision Date:
 Revision Note:

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End of Safety Data Sheet