Material Safety Data Sheet
Date: 04/28/2011
Last Revision Date: 11/21/2005

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog Number: NG-S38
Description: Sodium Ricinoleate
Other Names: [R-(Z)]-12-Hydroxy-9-octadecenoic acid. sodium salt

Supplied by CHEM SERVICE, Inc. PO BOX 599, WEST CHESTER, PA 19381 (610)-692-3026
EMERGENCY PHONE: 1-610-692-3026

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS: 5323-95-5
Description: Sodium Ricinoleate
EINECS No:
Hazard Symbols: N/A
Molecular Weight:
Molecular Formula:

SECTION 3 - HAZARDS IDENTIFICATION

Contact lenses should not be worn in the laboratory
Can cause eye irritation.
May be harmful if swallowed.

SECTION 4 - FIRST AID MEASURES

An antidote is a substance intended to counteract the effect of a poison. It should be administered only by a physician or trained emergency personnel. Medical advice can be obtained from a POISON CONTROL CENTER.

In case of contact: Flush eyes continuously with water for 15-20 minutes. Flush skin with water for 15-20 minutes.
If no burns have occurred-use soap and water to cleanse skin.
If inhaled remove patient to fresh air. Administer oxygen if patient is having difficulty breathing.
If patient has stopped breathing administer artificial respirations.
If patient is in cardiac arrest administer CPR.
Continue life supporting measures until medical assistance has arrived.

SECTION 5 - FIRE AND EXPLOSION DATA

Flash Point: Not Available
Extinguishing Media:
Carbon dioxide, dry chemical powder or spray.
Upper Explosion Limit: N/A  Lower Explosion Limit: N/A  Auto Ignition: N/A

NFPA Hazard Rating:
<table>
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<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Special</th>
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<tr>
<td>0 - Least, 1 - Slight, 2 - Moderate, 3 - High, 4 - Severe</td>
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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills or leaks: Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Absorb on vermiculite or similar material. Sweep up and place in an appropriate container. Hold for disposal. Wash contaminated surfaces to remove any residues. Remove contaminated clothing and wash before reuse.

SECTION 7 - HANDLING AND STORAGE

Handling:
This chemical should be handled only in a hood. Eye shields should be worn. Use appropriate OSHA/MSHA approved safety equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

Storage:
Store in a cool dry place. Store only with compatible chemicals. Store only with compatible chemicals. Keep tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL (TWA): N/A  ACGIH TLV (TWA): N/A  ACGIH TLV (STEL): N/A

Personal Protective Equipment
Eyes: Wear Safety Glasses.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Color: Off White to Brown
Phase: Crystalline solid
Melting Point: N/A °C
Boiling Point: N/A °C
Specific Gravity: N/A
Vapor Density: N/A
Vapor Pressure: N/A
Solubility in water: Slightly soluble
Odor: N/A
Evaporation Rate: N/A
Molecular Weight:
Molecular Formula:

SECTION 10 - STABILITY AND REACTIVITY

Incompatible with strong acids.
Incompatible with strong oxidizing agents.
Decomposition liberates toxic fumes.

SECTION 11 - TOXICOLOGY INFORMATION

RTECS: Not Available

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<th>Rat or Mouse LC50:</th>
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Carcinogenicity

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</table>

California Proposition 65 info: Not Listed

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not Available
Environmental Fate: Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in an approved chemical landfill.

SECTION 14 - TRANSPORTATION INFORMATION

Not a regulated chemical

SECTION 15 - REGULATORY INFORMATION

European Labeling in Accordance with EC Directives
Hazard Symbols: N/A

Risk Phrases:

Safety Phrases:

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct on the date it was last revised and must not be considered all
inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded MSDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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