Safety Data Sheet



Version 2

Revision Date: January 11, 2022

1. IDENTIFICATION

Product identifier

Product Name Innoleo® RA

Other means of identification

Issue Date: December 8, 2011

SDS # INL-005

Recommended use of the chemical and restrictions on use

Recommended Use Ingredient used in the manufacture or lubricants, plasticizers, resins, surfactants, etc.

Details of the supplier of the safety data sheet

Supplier Address Innoleo LLC Î H⊖€ÁQ c^&@Ý æ̂ Qåãæ) æ} [Jã ÃÆΦÁÎ Ĝ ÄÌ www.innoleo.com sales@innoleo.com

Emergency telephone number

Company Phone Number Phone: (561) 994-8905 [¦ÁQ+FÏ DÁÍÍÌ ËF€Í€

Fax: (561) 994-9247

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Yellow viscous liquid Physical state Viscous liquid Odor fatty acid

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%		
Fatty acids, castor-oil	61789-44-4	100		

^{**}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

Description of first aid measures

General Advice In case of accident or if you feel unwell, seek medical advice immediately (show the label or

SDS where possible).

Eye Contact Flush eyes with large amounts of water for at least 15 minutes. Hold eyelids open during

flushing. Get medical attention if irritation occurs.

Skin Contact Remove contaminated clothing. Wash with soap and water. Get medical attention if

irritation occurs.

Inhalation If symptoms of overexposure are experienced, move to fresh air. Get medical attention if

cough or other symptoms develop.

Ingestion Rinse mouth. Do NOT induce vomiting. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms Can cause irritation if large amounts are swallowed. May cause nausea, stomach pain,

vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Sand/earth. Dolomite (powdered limestone). Water spray (fog).

Unsuitable Extinguishing Media Do not use heavy water stream or water jet stream as this may spread the fire.

Specific Hazards Arising from the Chemical

None known.

Hazardous combustion products Smoke, fumes or vapors, and oxides of carbon.

Explosion Data

Sensitivity to Mechanical Impact Not sensitive.
Sensitivity to Static Discharge Not sensitive.

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. Evacuate area and fight fire from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protection recommended in Section 8. Avoid contact with eyes and skin.

Other Information FOR ALL TRANSPORTATION ACCIDENTS CALL INFOTRAC 1-352-323-3500

(International) / 1-800-535-5053 (North America).

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Minimize entry of material into sewers and drainage systems. Refer to permit discharge

limitations. Isolate spill, preventing entry be unauthorized persons.

Methods for Clean-Up Scrub area with detergent and water.

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. Do not eat, drink or smoke when

using this product. Avoid spilling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat,

sparks, and flame. Store away from incompatible materials. Store between 50-100°F (10-

32°C).

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

dust, mist or vapors.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear goggles or chemical safety glasses. Refer to 29 CFR 1910.133 for eye and face

protection regulations.

Skin and Body Protection Impervious gloves. Clean body covering. Refer to 29 CFR 1910.138 for appropriate skin

and body protection.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation

or risk of inhalation of vapors, use suitable respiratory equipment. Refer to 29 CFR

1910.134 for respiratory protection requirements.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

CC (closed cup)

API Gravity @ 60°F D1298

Information on basic physical and chemical properties

Physical state Viscous liquid

Yellow viscous liquid **Appearance** Odor fatty acid Color Yellow **Odor Threshold** Not determined

Property Values Remarks • Method

Not determined

рH Not available Melting point / freezing point 5.5°C / 41.9°F

Boiling point / boiling range 245°C / 473°F Flash point >190°C / >374°F

Evaporation Rate Not available Flammability (Solid, Gas) Liquid-Not applicable

Flammability Limit in Air

Not determined

Upper flammability or explosive

limits

Lower flammability or explosive

limits

Vapor Pressure Not available **Vapor Density** Not available

Relative Density 0.94

Water Solubility Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined

Autoignition temperature Temperature not available

Decomposition temperature Not determined Kinematic viscosity Not available **Dynamic Viscosity** Not available **Explosive Properties** None known **Oxidizing Properties** None known

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid

Incompatible Materials. Direct sunlight.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

Thermal decomposition products can include toxic oxides of carbon such as CO, CO2 and dense smoke.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Not available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Not available

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

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 Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Castor oil, fatty acids	Х	ACTIVE	Χ	Х		Х	Х	Х	Χ

Legend:

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

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

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 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.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards010Not determinedHMISHealth HazardsFlammabilityPhysical hazardsPersonal Protection010Not determined

Issue Date:08-Dec-2011Revision Date:January 11, 2022Revision Note:Address update

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet