1. Product and Company Identifaction

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Product Name Linolenic Acid
Part Number RXSOL-60-6698-001

Company Details:....

RX MARINE INTERNATIONAL 105, A wing , BSEL , TECH PARK. VASHI ,NEW BOMBAY 400703 INDIA

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN, CANADA and KENYA

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Emailmail@rxmarine.comWebsitewww.rxmraine.com

2. Composition / Information on ingredients

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Substances

Synonyms Lnn

cis, cis, cis-9,12,15-Octadecatrienoic acid

Formula $$C_{18}H_{30}O_2$$ Molecular weight \$278,43\$ g/mol CAS-No \$463-40-1\$ EC-No. \$207-334-8\$

No components need to be disclosed according to the applicable regulations.

3. Hazards Identification

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Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No

1272/2008.

Label elements No hazard pictogram, no signal word, no hazard statement(s), no

precautionary statement(s) required

Other hazards This substance/mixture contains no components considered to be either

persistent,

bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have

endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

4. First Aid Measures

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Description of first aid measures

If inhaled After inhalation: fresh air.

In case of skin contact In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

In case of eye contact After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult

doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the

labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment No data available

needed

If swallowed

5. Fire-fighting Measures

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Extinguishing media

Suitable extinguishing media Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are

Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

> In a fire or if heated, a pressure increase will occur and the container may burst, with the

risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along

the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

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the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters Further information In the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Methods and materials for containment and cleaning up

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Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Do not let product enter drains.

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

For disposal see section 13.

Reference to other sections

Environmental precautions

7. Handling and Storage

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Precautions for safe handling

Conditions for safe storage, including any incompatibilities

For precautions see section 2.2.

Recommended storage temperature see product label. Tightly closed.

Recommended storage temperature see product label.

Storage conditions Tightly closed.

Storage stability Recommended storage temperature -20 °C Air and light sensitive. Store

under inert gas.

Storage class Storage class (TRGS 510): 10: Combustible liquids

Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

8. Exposure controls and personal protection

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government standards such as NIOSH (US) or EN 166(EU). Safety

glasses

Skin protection Not required

Respiratory protection Not required; except in case of aerosol formation.

Control of environmental exposure Do not let product enter drains.

9. Physical and chemical properties

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Information on basic physical and chemical properties

Physical state Liquid

Color No data available
Odor No data available

Melting point/freezing point Melting point/range: -11 $^{\circ}$ C - lit.

Initial boiling point and boiling range 230 - 232 °C at 1 hPa - lit.

Flammability (solid, gas)

Upper/lower flammability or explosive limits

No data available

Flash point

113 °C - closed cup

Autoignition temperature 550 °C

Decomposition temperature No data available

materials. Extremely flammable in the presence of the following materials

or conditions: oxidizing

materials.

pH No data available

Viscosity Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Water solubilityNo data availablePartition coefficient: n-octanol/waterNo data availableVapor pressureNo data available

Density 0.914 g/cm 3 at 25 °C - lit.

Relative density

Relative vapor density

No data available

Particle characteristics

No data available

Explosive properties

No data available

Oxidizing properties

No data available

Other safety information

No data available

10. Stability and reactivity

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Reactivity Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as

critical

Chemical stability The product is chemically stable under standard ambient conditions (room

temperature).

Possibility of hazardous reactionsNo data availableConditions to avoidAir Light.

Air Light.
Strong heating.

Incompatible materialsBases, Oxidizing agents, Reducing agents

Hazardous decomposition productsIn the event of fire: see section 5

11. Toxicological information

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Information on toxicological effects

Acute toxicity Oral: No data available

Inhalation: No data available

Dermal: No data available

No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available No data available Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure Aspiration hazard No data available

Additional Information

Endocrine disrupting properties

Product

Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

12. Ecological information

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Toxicity
No data available
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

Product

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects

No data available

13. Disposal considerations

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Waste treatment Method

No data available

14. Transport information

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UN number
UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

ADR/RID: IMDG: IATA:

IATA: Not dangerous goods
Transport hazard class(es)
ADR/RID: IMDG: IATA:
Packaging group
ADR/RID: IMDG: IATA:

Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user No data available

Further information Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

Chemical Safety Assessment

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

For this product a chemical safety assessment was not carried out

16. Other information

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Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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