1. Product and Company Identifaction

www.rxmarine.com

Porduct Name Linalool

Part Number RXSOL-60-6272-025

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

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 :::AOH :0091 9821214367

 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

2. Composition / Information on ingredients

www.rxmarine.com

Product name Cas No EC No Weight Formula Linalool 78-70-6 201-134-4 154,25 g/mol $C_{10}H_{18}O$

3. Hazards Identification

www.rxmarine.com

Signal Word Warning

Hazard Statements H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Classification of the substance or mixture No data available

Supplemental Hazard Statements No data available

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.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

Swallowed

www.rxmarine.com

General advice Show this material safety data sheet to the doctor in attendance.

If inhaled After inhalation fresh air.

Eye Contact After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing immediately make victim drink water (two glasses at

most). Consult a physician. 4.2 Most import

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

Rinse skin with water/ shower

Inhalation No data available
Ingestion No data available

Most important symptoms and effects, both acute and delaye

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

needed

No data available

5. Fire-fighting Measures

www.rxmarine.com

Flammability No data available

Suitable extinguishing media Carbon dioxide (CO2) Foam Dry powder

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

given.

Special hazards arising from the substance or mixture

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

Further information Remove container from danger zone and cool with water. Prevent fire

extinguishing water from contaminating surface water or the ground water

system.

No data available

Hazardous combustion

products

Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent

skin contact by keeping a safe distance or by wearing suitable protective

clothing.

Protective Equipment No data available
Specific Hazards Arising from the Chemical No data available

6. Accidental Release Measures

www.rxmarine.com

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Spillage No data available
Personal Protection No data available

Environmental Precaution Do not let product enter drains. Risk of explosion.

Methods and materials for Cover drains. Collect, bind, and pump off spills. Observe possible containment and cleaning material restrictions (see sections 7 and 10). Take up with liquid-

absorbent and neutralising material (e.g. Chemizorb® H?, Merck Art. No.

101595). Dispose of properly. Clean up affected area.

Reference to other sections For disposal see section 13.

7. Handling and Storage

www.rxmarine.com

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take

precautionary measures against static discharge.

Incompatible materials No data available

Hygiene measures Immediately change contaminated clothing. Apply preventive skin

protection. Wash hands and face after working with substance. For

precautions see section 2.2.

Advice on safe handling For precautions see section 2.2.

Conditions for safe storage including any incompatibilities

No data available

Storage conditions Tightly closed. Recommended storage temperature see product label.

Storage class No data available

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

stipulated

Advice on general occupational hygiene No data available

8. Exposure controls and personal protection

www.rxmarine.com

Personal protective equipment Exposure controls

Engineering Control No data available

Eye/face protection Use equipment for eye protection tested and approved under appropriate

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

glasses

Body Protection Protective clothing.

Skin protection This recommendation applies only to the product stated in the safety data

> sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442,

Size M)

Respiratory protection Required when vapours/aerosols are generated. Our recommendations on

> filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly

documented.

Other Protection Measure No data available

9. Physical and chemical properties

Density

www.rxmarine.com

Physical state Liquid Colorless Colour

Odour Pleasantfloral Odor Threshold No data available

рΗ 4,5 at 1,45 g/l at 25 °C

< -100 °C Melting Point

Boiling Point 196,3 °C at 992 hPa - OECD Test Guideline 103

Flash Point ca.77,2 °C - Pensky-Martens closed cup - ISO 2719

No data available **Evaporation Rate** No data available Flammability (solid, gas) Explosive limits No data Available

Upper/lower flammability or explosive limits Upper explosion limit: 5,2 %(V) Lower explosion limit: 0,9 %(V)

Autoignition temperature 260 °C at 994 hPa

ca.> 200 °C - Distillable in an undecomposed state at normal pressure Decomposition temperature

Vapour pressure 0,27 hPa at 25 °C - OECD Test Guideline 104

dynamic: 4.465 mPa.s at 25.00 °C - OECD Test Guideline 1140.45 mPa.s Viscosity

at 25 °C

0,661 g/cm3 at 20 °C

Relative Density No data available No data available Specific Gravity

Partition coefficient log Pow: 2,84 at 25 °C - OECD Test Guideline 107 - Bioaccumulation is not expected

No data available

Explosive properties

Solubility 1,55 g/l at 25 °C - OECD Test Guideline 105- soluble

Ignition temperature No data available Particle characteristics No data available

10. Stability and reactivity

www.rxmarine.com

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.

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

temperature)

Possibility of hazardous reactions Exothermic reaction with: acids Violent reactions possible with: Strong

oxidizing agents

Conditions to avoid Strong heating.

Incompatible materials Strong oxidizing agents

Hazardous decomposition products In the event of fire: see section 5

11. Toxicological information

www.rxmarine.com

LD50 Oral - Mouse - male and female - 2.200 mg/kg (OECD Test Acute toxicity Guideline 401) LC50 Inhalation - Mouse - female - 4 h - > 5 mg/l

Remarks: (ECHA) LD50 Dermal - Rabbit - 5.610 mg/kg (OECD Test

Guideline 402)

No data available

Skin - Rabbit Result: Irritating to skin. - 4 h (OECD Test Guideline 404) Skin corrosion/irritation

Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405)

Respiratory or skin sensitization Local lymph node assay (LLNA) - Mouse Result: May cause sensitization

by skin contact. (OECD Test Guideline 429)

Carcinogenicity

Germ cell mutagenicity

Reproductive toxicity

Additional Information

Serious eye damage/irritation

Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene

mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: Micronucleus test Species: Mouse Application Route: Oral Method: OECD Test Guideline

474 Result: negative Test Type: Micronucleus test Species: Mouse

No data available

No data available

Repeated dose toxicity - Rat - male and female - Oral - 28 Days -NOAEL (No observed adverse effect level) - 117 mg/kg To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety

practice

12. Ecological information

Specific target organ toxicity - single exposure

www.rxmarine.com

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 64,2 % - Readily

biodegradable. (OECD Test Guideline 301D)

static test LC50 - Oncorhynchus mykiss (rainbow trout) - 27,8 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to fish

static test EC50 - Daphnia magna (Water flea) - 59 mg/l - 48 h (OECD Toxicity to daphnia and other aquatic invertebrates

Test Guideline 202)

Toxicity No data available

Toxicity to bacteria static test EC50 - activated sludge - > 100 mg/l - 30 h (OECD Test

Guideline 209)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 156,7 mg/l -

96 h (DIN 38412) static test EC10 - Desmodesmus subspicatus (green

algae) - 54,3 mg/l - 96 h (DIN 38412)

Bioaccumulation potential No data availalble No data availalble Mobility in soil

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 No data availalble

Other adverse effects Discharge into the environment must be avoided.

13. Disposal considerations

www.rxmarine.com

Product See www.retrologistik.com for processes regarding the return of

chemicals and containers, or contact us there if you have further questions

Contaminated packaging No data available Waste treatment Method No data available

14. Transport information

www.rxmarine.com

ADR/RID: IMDG: IATA: UN number

UN proper shipping name ADR/RID:Not dengerous goods IMDG:Not dengerous goods IATA:Not dengerous goods

Transport hazard class(es) ADR/RID: IMDG: IATA: Packaging group ADR/RID:-IMDG:-IATA:-Environmental hazards ADR/RID:No IMDG:No IATA:No

Special precautions for user No data available Further information No data available

15. Regulatory information

www.rxmarine.com

Safety, health and environmental regulations/legislation specific for the This material safety data sheet complies with the requirements of substance or mixture

Other regulations

Chemical Safety Assessment

Regulation (EC) No. 1907/2006.

Take note of Dir 94/33/EC on the protection of young people at work A Chemical Safety Assessment was not carried out for this substance.

16. Other information

www.rxmarine.com

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.

DISCLAIMER OF LIABILITY: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.