1. Product and Company Identifaction

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Porduct Name Hexane

Part Number RXSOL-19-1566-050

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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 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

2. Composition / Information on ingredients

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Chemical Name Cas No EC No Weight Formula n-Hexane hypergrade for 110-54-3 203-777-6 86,18 g/mol C_6H_{14}

organic trace analysis

SupraSolv®

3. Hazards Identification

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Signal Word Danger

Hazard Statements H225 Highly flammable liquid and vapor. H304 May be fatal if

swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H361f Suspected of damaging fertility. H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if inhaled. H411 Toxic to aquatic life with long

lasting effects.

Precautionary statements P202 Do not handle until all safety precautions have been read and

understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P301 + P310 IF SWALLOWED Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water.

P331 Do NOT induce vomiting.

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

4. First Aid Measures

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

If inhaled After inhalation fresh air. Immediately call in physician.

Eye Contact Rinse out with plenty of water. Remove contact lenses

Swallowed Make victim drink water (two glasses at most). Consult doctor if feeling

unwell.

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 No data available

needed

5. Fire-fighting Measures

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Flammability No data available

Suitable extinguishing media Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media No data available

Special hazards arising from the substance or mixture Carbon oxides Combustible. Pay attention to flashback. Vapors are

heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive

mixtures with air at ambient temperatures.

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

extinguishing water from contaminating surface water or the ground water

system.

Hazardous combustion No data available

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

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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 Avoid dust formation. Avoid breathing vapors, mist or gas. For personal

protection see section 8

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-

material restrictions (see sections 7 and 10). Take up with liquidabsorbent material (e.g. Chemizorb®). Dispose of properly. Clean up

affected area

Reference to other sections For disposal see section 13

7. Handling and Storage

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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 Work under hood. Do not inhale substance/mixture. Avoid generation of

vapours/aerosols. No data available

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container tightly closed in a dry and well-ventilated place. Keep

away from heat and sources of ignition. Recommended storage

temperature see product label

Storage class Storage class (TRGS 510 3 Flammable liquids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

Advice on general occupational hygiene No data available

8. Exposure controls and personal protection

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Exposure controls Personal protective equipment

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 Flame retardant antistatic protective clothing.

Skin protection

This recommendation applies only to the pro

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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M) 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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 30 min Material tested:Butoject®

(KCL 898)

Recommended Filter type Filter A (acc. to DIN 3181) for vapours of organic compounds 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

Respiratory protection

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Physical state Liquid
Colour Colorless

Odour Hydrocarbon-like

Odor Threshold No data available pH 7,0

Melting Point -95,35 °C at 1.013 hPa Boiling Point 69 °C at 1.013 hPa

Flash Point -22 °C - c.c
Evaporation Rate No data available
Flammability (solid, gas) No data available
Explosive limits No data available

Upper/lower flammability or explosive limits

Upper explosion limit 8,1 %(V) Lower explosion limit 1,0 %(V)

Autoignition temperature 225 °C at 1.013 hPa

Decomposition temperature No data available

Vapour pressure 175,98 hPa at 20,0 °C

Viscosity Dynamic 0,3 mPa.s at 25 °C

Density $0,66 \text{ g/cm}3 \text{ at } 25 \text{ }^{\circ}\text{C}$

Relative Density 4,77 at 23,6 °C - Regulation (EC) No. 440/2008, Annex, A.3

Specific Gravity No data available

Partition coefficient Log Pow ca.4 at 20 °C - (Lit.), Potential bioaccumulation

Explosive properties No data available

Solubility 0.01 g/l at 25 °C - slightly soluble

Ignition temperature No data available
Particle characteristics No data available

10. Stability and reactivity

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Reactivity Vapors may form explosive mixture with air

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

temperature)

Possibility of hazardous reactions Risk of explosion with Violent reactions possible with: Strong oxidizing

agents nitrogen oxides halogens rubber various plastics Risk of ignition or formation of inflammable gases or vapours with: Peroxides (sodium salt

Conditions to avoid Warming.

Incompatible materials

No data available
Hazardous product dicomposition

No data available

11. Toxicological information

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Acute toxicity

Skin corrosion/irritation

Serious eye damage/irritation Respiratory or skin sensitization

Carcinogenicity

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity- single exposure

Additional Information

LD50 Oral - Rat - male and female - 16.000 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - 4 h - 172 mg/l - vapor (RTECS) LD50 Dermal - Rabbit - male - > 2.000 mg/kg (OECD Test Guideline 402)

Skin - Rabbit Result Skin irritation - 24 h (OECD Test Guideline 404) (Regulation (EC) No 1272/2008, Annex VI)

Eyes - Rabbit Result No eye irritation - 72 h (OECD Test Guideline 405 Local lymph node assay (LLNA) - Mouse Result negative (OECD Test Guideline 429)

Suspected of causing cancer

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 test Metabolic activation: with and without metabolic activation Method OECD Test Guideline 476 Result: negative Test Type: dominant lethal test Species Mouse Millipore-1.04369 Page 9 of 13 The life science business of Merck operates as MilliporeSigma in the US and Canada Application Route: inhalation (vapor) Method OECD Test Guideline 478 Result: negative Test Type: Chromosome aberration test Species Rat Cell type Bone marrow Application Route: Gavage Method OECD Test Guideline 475 Result negative

Suspected of damaging fertility.

May cause drowsiness or dizziness. - Central nervous system Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

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. Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks -

NOAEL (No observed adverse effect level) - 40 mg/kg - LOAEL (Lowest observed adverse effect level) - 200 mg/kg Drowsiness, irritant effects, somnolence narcosis, Nausea, Tiredness, CNS disorders, paralysis symptoms Risk of corneal clouding. It generally applies for aliphatic hydrocarbons with 6 - 18 carbon atoms that they may cause pneumonia, in some cases also pulmonary oedema, upon direct inhalation, i.e. in conditions that can occur only in very special circumstances (nebulizations, spraying, inhalation of aerosols and similar). After absorption of very large quantities: narcosis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result 98 % - Readily

biodegradable. (OECD Test Guideline 301F) Remarks: (in analogy to

similar products)

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 2,5 mg/l - 96 h

(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 2,1 mg/l - 48 h (Lit.)

Toxicity No data available
Toxicity to bacteria No data available

Toxicity to algae = 0,024 - 0,029 mg/l - 28 h (Lit.)

Mobility in soil No data available

Results of PBT av PvB 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

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

Depending on the concentration, phosphorus and/or nitrogen compounds

may contribute to the eutrophication of drinking- water supplies. Discharge into the environment must be avoided. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

13. Disposal considerations

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Product No data available
Contaminated packaging No data available
Waste treatment Method No data available

14. Transport information

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UN number ADR/RID:1208 IMDG:1208 IATA:1208

UN proper shipping name ADR/RID:HEXANES IMDG:HEXANES IATA:HEXANES

Transport hazard classess ADR/RID:3 IMDG:3 IATA:3
Packaging group ADR/RID:1 IMDG:1 IATA:1

Environmental hazards ADR/RID:Yes IMDG Marine pollutant: Yes IATA: No

Special precautions for user Tunnel restriction code (D/E)

Further information No data available

15. Regulatory information

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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

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

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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