1. Product and Company Identifaction

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Porduct Name N HEXANE

Part Number RXSOL-19-1315-282

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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2. Composition / Information on ingredients

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

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. 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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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 caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a

physician immediately.

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

Rinse skin with water/ shower. Call a physician immediately

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

Swallowed

No data available

5. Fire-fighting Measures

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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

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.

No data available

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

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: Avoid inhalation of dusts. 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 dry. Dispose of

properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections For disposal see section 13.

7. Handling and Storage

Incompatible materials

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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.

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 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 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: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested:Butoject® (KCL 898) 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: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 120 min Material tested:Camatril® (KCL 730 / Aldrich

Z677442, Size M)

Respiratory protection

Recommended Filter typeFilter 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

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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 Pa 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

Dynamic 0,3 mPa.s at 25 °C Viscosity

0,66 g/cm3 at 25 °C Density

Relative Density No data available No data available Specific Gravity

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

Explosive properties No data available

0,01 g/l at 25 °C - slightly soluble Solubility

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 decomposition products In the event of fire: see section 5

11. Toxicological information

Respiratory or skin sensitization

Specific target organ toxicity - single exposure

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LD50 Oral - Rat - male and female - 16.000 mg/kg (OECD Test Acute toxicity

> Guideline 401) LC50 Inhalation - Rat - 4 h - 172 mg/l - vapor Remarks: (RTECS) LD50 Dermal - Rabbit - male - > 2.000 mg/kg (OECD Test

Guideline 402)

Skin corrosion/irritation Skin - Rabbit Result: Skin irritation - 24 h (OECD Test Guideline 404)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Serious eye damage/irritation Eyes - Rabbit Result: No eye irritation - 72 h (OECD Test Guideline 405

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test

Guideline 429)

Carcinogenicity No data available

Germ cell mutagenicity 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:

MouseApplication 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

Reproductive toxicity Suspected of damaging fertility.

May cause drowsiness or dizziness. - Central nervous system Remarks:

Classified according to Regulation (EU) 1272/2008, Annex VI (Table

3.1/3.2)

Additional 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. 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) (in analogy to similar

products)

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

Remarks: (ECOTOX Database)

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

Toxicity No data available
Toxicity to bacteria No data available
Toxicity to algae No data available
Products Biodegradation 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 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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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 class(es) ADR/RID:3 IMDG:3 IATA:3
Packaging group ADR/RID:ll IMDG:ll IATA:ll
Environmental hazards ADR/RID:Yes IMDG: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 substance or mixture

Other regulations

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

Observe work restrictions regarding maternity protection in accordance to

Chemical Safety Assessment

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.

A Chemical Safety Assessment was not carried out for this substance.

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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