1. Product and Company Identifaction

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Product Name 1,2-DIMETHOXYETHANE
Part Number RXSOL-19-1164-190

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

Branch: Kandla, Hazira, Chennai, Vizag, Paradip, Kolkata, UAE, OMAN, CANADA, OMAN

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2. Composition / Information on ingredients

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Name of Substance Cas Number

1,2-DIMETHOXYETHANE 110-71-4

3. Hazards Identification

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Environmental hazards Based on available data, the classification criteria a

Hazard Statements H225 - Highly flammable liquid and vapor

H332 - Harmful if inhaled H315 - Causes skin irritation

H360FD - May damage fertility. May damage the ur

EUH019 - May form explosive peroxides

Precautionary Statements P210 - Keep away from heat/sparks/open flames/ho

P304 + P340 - IF INHALED: Remove to fresh

comfortable for breathing

P312 - Call a POISON CENTER or doctor/ physicia P302 + P352 - IF ON SKIN: Wash with plenty of soa

P280 - Wear protective gloves/ protective clothing/

1 200 VVCai protective gloves/ protectiv

Restricted to professional users.

4. First Aid Measures

Additional EU labelling

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General Advice

Eye Contact

Show this safety data sheet to the doctor in attendance. Rinse immediately with plenty of water, also under

medical attention is required.

Skin Contact Wash off immediately with plenty of water for at

required.

Inhalation: Move to fresh air. Do not use mouth-to-mouth meth

artificial respiration with the aid of a pocket mask respiratory medical device. Immediate medical atte

respiration.

Ingestion: Do not induce vomiting. Call a physician or Poison C

Ensure that medical personnel are aware of the themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Breathing difficulties. Inhalation of high vapor co

dizziness, tiredness, nausea and vomiting

Indication of any immediate medical attention and special treatment needed Notes to Physician Treat symptomatically.

5. Fire-fighting Measures

Self-Protection of the First Aider

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Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical of

exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Flammable. Containers may explode when heated. Vapo

Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO2).

Advice for firefighters

As in any fire, wear self-contained breathing appropriate to the self-contained breat

(approved or equivalent) and full

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people

personnel to safe areas. Ensure adequate ventilation. l

measures against static discharges.

Environmental precautions Should not be released into the environment. See Sec

Methods and materials for Soak up with inert absorbent material. Keep in sui containment and cleaning up sources of ignition. Use spark-proof tools and explosi Reference to other sections Refer to protective measures listed in Sections 8 and

7. Handling and Storage

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Precautions for safe handling

Use only under a chemical fume hood. Wear personal protective

equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe vapors or spray mist. If peroxide formation is suspected, do not open or move container. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary

measures against static discharges.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

practice.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated

place. Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. Keep away from heat and sources of ignition.

Specific end use(s)

Use in laboratories

8. Exposure controls and personal protection

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Exposure limits

Biological limit values

Monitoring methods

Predicted No Effect Concentration (PNEC)

Engineering Measures

Personal protective equipment

Skin and body protection Long sleeved clothing

Respiratory Protection

Small scale/Laboratory use

List source(s)

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS70 General methods for sampling airborne gases and vapours MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas

chromatography MDHS 96 Volatile organic compounds in air-Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Fresh water 6.4 mg/l

Fresh water sediment 25.7 mg/kg

Marine water 0.64 mg/L

Marine water sediment 2.57 mg/kg

Water Intermittent 40 mg/L

Microorganisms in sewage treatment 20 mg/L

Soil (Agriculture) 1.39 mg/kg

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Eye Protection Safety glasses with side-shields (European standard - EN 166) Hand Protection Protective gloves

Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

imits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

Environmental exposure controls

When RPE is used a face piece Fit Test should be conducted No information available.





Gloves Suit

9. Physical and chemical properties

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Appearance Colorless
Physical State Liquid

Odour Petroleum distillates
Odor Threshold No Data Available
pH No Data Available
Melting Point/Range 69 °C / -92.2 °F
Softening Point No Data Available
Boiling Point/Range 84 - 86 °C / 186.8 °F @ 760 mmHg

183.2

Flash Point -6 °C / 21.2 °F Method No Information Available Flammability (solid, gas) Not applicable Liquid

Upper explosion limit 10.4 vol%
Lower explosion limit 1.6 vol%

Vapor Density 3.1 (Air = 1.0) (Air = 1.0)

Vapor pressure 64 hPa @ 20 °C

Specific Gravity / Density 0.867

Bulk Density Not applicable Liquid

Water solubility Miscible

Solubility in other solvents No information available

Partition coefficient: octanol log Pow

Autoignition temperature 200 200 - °C / 392 - °F

Ethylene glycol dimethyl ether 0.21

Decomposition Temperature No data available Viscosity 1.1 mPa.s at 20 °C

Explosive Properties No data available Vapors may form explosive mixtures with air

Oxidizing Properties No information available

Other information Molecular Formula C4 H10 O2

Molecular Weight 90.12

10. Stability and reactivity

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Recativity None known, based on information available

Stability Stable under normal conditions.

Possibility of hazardous reactions Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

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Acute Toxicity Oral Based on available data, the classification criteria are not met

Dermal Based on available data, the classification criteria are not met

Inhalation Category 4

Skin corrosion/irritation Category 2

Serious eye damage/irritation Based on available data, the classification criteria are not met

Respiratory or skin sensitization Respiratory Based on available data, the classification criteria are not met

Skin Based on available data, the classification criteria are not met

Inhalation Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizzi

Sensitisation possible through inhalation

Germ cell mutagenicity Based on available data, the classification criteria are not met Carcinogenicity Based on available data, the classification criteria are not met

The table below indicates whether each agency has listed any ingredient as a carcinogen

Category 1B Reproductive toxicity

Reproductive Effects May impair fertility. Developmental Effects May cause harm to the unborn child.

STOT-single exposure Based on available data, the classification criteria are not met Target Organs None known. STOT-repeated exposure Based on available data, the classification criteria are not met Target Organs None known. Based on available data, the classification criteria are not met Other Adverse Effects. Aspiration Hazard

Other Adverse Effects The toxicological properties have not been fully investigated.

Symptoms / effects, both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed tiredness, nausea and vomiting.

12. Ecological information

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Environmental Effects Do not empty into drains

Persistence and degradability

Persistence

Not readily biodegradable Persistence is unlikely, based on information available.

Bioaccumulative potential Bioaccumulation is unlikely

The product contains volatile organic compounds (VOC) which will evaporate easily from all Mobility in soil

surfaces Will likely be mobile in the environment due to its volatility. Disperses rapidly in air

Results of PBT and vPvB

Assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPv

Other adverse effects Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors Per Pollutant This product does not contain any known or suspected substance Ozone Depletion Potential This product d

any known or suspected substance

13. Disposal considerations

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Waste from Residues / Unused

Products

Contaminated Packaging

Waste is classified as hazardous. Dispose of in acco on waste and hazardous waste. Dispose of in accord

Dispose of this container to hazardous or special v residue, (liquid and/or vapor), and can be dangero

and sources of ignition.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, W

specific.

Other Information

Waste codes should be assigned by the user based not dispose of waste into sewer. Can be incinerated

14. Transport information

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Land transport (DOT) / ADR/ ADNR / IATA /

UN Number UN2252

Proper shipping name 1,2-DIMETHOXYETHANE

Class 3

Packing Group II