Material Safety Data Sheet

DIETHYL PHTHALATE (RXSOL-19-1129-025)

1. Product and Company Identifaction

Product Name	Diethyl Phthalate
Part Number	RXSOL-19-1129-025
Chemical Formula	C6H4 (COOC2H5)2

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Wight %
DEP	84-66-2	201-550-6	222.24 g/mol

3. Hazards Identification

Classification of the substance or mixture	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.
Label elements	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
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

General advice	Special treatment by a doctor may be required as soon as possible, in case of exposure to the substance or its vapor.
eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician
skin contact:	Remove contaminated clothing. Wash the skin with soap and plenty of water.
swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Ingestion	Clean mouth with water. Drink plenty of water or milk. Do not induce vomiting. Call a physician immediately.
Inhalation	Move victim to fresh air at once. If breathing is difficult, give oxygen.
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 needed	No data available

5. Fire-fighting Measures

Special hazards	Flash point: 1610 C. Combustible material. Above the flash point, explosive vapor-air mixtures may be formed. Gives off irritating or toxic fumes.
Extinguishing agents	Water spray, dry chemical, alcohol foam or carbon dioxide.
Protective equipmentt	In case of fire, wear self-contained breathing apparatus and chemical protection suit.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary
Further information	No data available

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.
Environmental precautionss	Do not allow material to contaminate ground water system.
Methods for cleaning up	Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with and inert material. (e.g., vermiculite, dry sand earth) and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer. Dispose of in Compliance with local and national regulations.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Handling	Ensure adequate ventilation, especially in confined area. Avoid contact with eyes and skin. Wash thoroughly after handling.
Storage	Keep in tightly closed container. Store in cool, dry, ventilated area, away from sources of ignition. Protect against physical damage.
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

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.





Gloves Suit

9. Physical and chemical properties

Appearance	Form: liquid Colour: light yellow
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	Melting point/range: -3 °C - lit.
Initial boiling point and boiling range	298 - 299 °C - lit.
Flash point	156.0 °C - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Lower explosion limit: 0.75 %(V)
Vapour pressure	28 hPa at 25 °C
Vapour density	7.7 - (Air = 1.0)
Relative density	1.12 g/cm3 at 25 °C
Water solubility	0.932 g/l at 20 °C - OECD Test Guideline 105 - slightly soluble
Partition coefficient	n- octanol/water: log Pow: 2.2 at 41 °C
Auto-ignition temperature	457.0 °C
Decomposition temperature	No data available
Viscosity	11.53 mm2/s at 20 °C -
Explosive properties	No data available
Oxidizing properties	No data available
Relative vapour density	7.7 - (Air = 1.0)

10. Stability and reactivity

Reactivity	No data available
Stability	Stable at normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Oxidizing agents, acids
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5.
Hazardous polymerization	Will not occur

11. Toxicological information

Acute toxicity	LD50 Oral - Rat - 8,600 mg/kg(Diethyl phthalate)
Remarks	Behavioral:Somnolence (general depressed activity). LC50 Inhalation - Rat - 6 h - > 4,640 mg/m3(Diethyl phthalate) LD50 Dermal - Rat - male and female - > 10,000 mg/kg(Diethyl phthalate)
Skin corrosion/irritation	Skin - Rabbit(Diethyl phthalate) Result: No skin irritation - 24 h
Serious eye damage/eye irritation	Eyes - Rabbit(Diethyl phthalate) Result: Moderate eye irritation
Respiratory or skin sensitisation	- Mouse(Diethyl phthalate) Result: Did not cause sensitisation on laboratory animals. (OECD Test Guideline 429)

Germ cell mutagenicity	Mouse(Diethyl phthalate) lymphocyte Result: negative Ames test(Diethyl phthalate) S. typhimurium
Result	Negative
Carcinogenicity	This product is or contains a component that is not classifiable as to its classification.(Diethyl phthalate) IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Reproductive toxicity	
Specific target organ toxicity - single exposure	No data available(Diethyl phthalate)
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available(Diethyl phthalate)
Additional Information	Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 150 mg/kg(Diethyl phthalate) RTECS: TI1050000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Diethyl phthalate)

12. Ecological information

Toxicity to fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 12 mg/l - 96 h(Diethyl phthalate)
Toxicity to daphnia and static test LC50 invertebrates	Daphnia magna (Water flea) - 90 mg/l - 48 h(Diethyl other aquatic phthalate)
Toxicity to algae	Static test EC50 -Desmodesmus subspicatus (Scenedesmus subspicatus) - 23 mg/l - 72 h(Diethyl phthalate) (OECD Test Guideline 201)
Persistence and degradability Biodegradability aerobic	Exposure time 28 d(Diethyl phthalate) Result: 94.6 % - Readily biodegradable.
Bioaccumulative potential Bioaccumulation Lepomis macrochirus (Bluegill) -	21 d- 0.00942 mg/l(Diethyl phthalate) Bioconcentration factor (BCF): 117
Mobility in soil	No data available(Diethyl phthalate)
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.
Other adverse effects	Harmful to aquatic life.

13. Disposal considerations

Waste treatment methods Product	Product Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.
Disposal method	It is banned from land disposal according to RCRA. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a approved waste facility. Processing, use or contamination of this product may change the waste management options.

14. Transport information

Regulated as a hazardous material under IMO or IATA or ADR/RID

UN proper shipping name

ADR/RID	Not dangerous goods

IMDG	Not dangerous goods
IATA	Not dangerous goods
Proper shipping name	Other Regulated Substances, Liquid, n.o.s (DIETHYL PHTHALATE)
Special precautions for user	No data available

TDG

UN Number	NA 3082
EmS number	F-A S-F
Imco Class	9
Packing group	III
Marine Pollutant (Yes /NO)	NO

15. Regulatory information

The product is classified and labelled according to EEC directive on classification of hazardous preparations 90/492/EEC.

Hazard labels	Xi - Irritant
R-phrases	R36/37/38 - Irritating to eyes, respiratory system and skin.
S-phrases	S26 - After contact with skin, wash, immediately with plenty of water S37/39 - Wear suitable gloves and eye / face protection.
TSCA Classification	Diethyl Phthalate is not covered under TSCA 8(a) – Preliminary assessmentinformation Rule and TSCA 8 (d) – Health & Safety data reporting Rule.
Safety, health and environmental regulations/legislation specific for the substance or mixture	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical safety assessment	For this product a chemical safety assessment was not carried out.

16. Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.

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