

**MSDS Plasticizer****JOB DESCRIPTION & INSTRUCTIONS**

Doc. Level: II

Doc. Version: II

Doc. No: NCPL- HSE-F-22

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Plasticizer

Material Safety Data Sheet (MSDS)

PRODUCT NAME

Plasticizer

Case#117-81-7

APPEARANCE

Clear, Colorless oily liquid, Water like appearance, Faint odor

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PHYSICAL PROPERTIES

Chemical Nam	:	1, 2 Benzene Di-Carboxylic Acid (2-ethyl hexyl) Ester
Molecular Formula	:	C ₂₄ H ₃₈ O ₄
Molecular Weight	:	390
Melting Point	:	- 50.0 °C
Boiling Point	:	384.0 °C

PREPARED**ENDOURSED****REVIEWED****APPROVED****INTERPRETED**

Manager HSE

Dy. Director
Technical

Manager HSE

Director

Stakeholder

HAZARD IDENTIFICATION

Main Hazards

Possible risk of impaired fertility. Possible risk of harm to the unborn child.

Health Hazards

Eyes: Liquid or mist may cause slight transient irritation.

Skin: Prolonged or repeated contact with skin may cause slight irritation.

Ingestion: A large dose may cause the central nervous system depression. A small dose may cause gastrointestinal irritation.

Inhalation: Exposure to vapors at higher concentrations may cause irritation of nose, throat & respiratory tract.

Fire Hazards

Flash Point	:	199 °C		
Auto Ignition Temperature	:	390 °C		
Explosion Limits	:	0.3 %	(Volume)	Lower
		2.4 %	(Volume)	Upper

PACKING

It is available in mild steel (M. S.) drums of 200 Kg net or in Bulk liquid form (Road Tankers of 10 ~ 20 M³)

FIRST AID

Eyes

Immediately flood eyes with plenty of water for at least 10 minutes, holding the eyes open. Get immediate medical attention if soreness or redness persists.

Skin

Wash affected skin with soap and plenty of water immediately.

Ingestion

Wash out mouth with water. Do not give anything for eating or drinking to an unconscious person. Do not induce vomiting. Get immediate medical attention.

Inhalation

Remove from exposure. Keep warm and at rest.

Advice to Physicians

Treat symptomatically. If swallowed, flush stomach.

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ACCIDENTAL RELEASE MEASURES

Personal Protectives

Wear appropriate protective clothing. Material can create slippery conditions under foot.

Environmental Precautions

Try to prevent the material from entering drains or water reservoirs. Inform local authorities if spillage has entered water course or sewer or has contaminated soil or vegetation. Prevent spread of material by use of temporary bund or impervious barrier.

Spillage

Contain and absorb spilled material using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

Disposal

Product: Incineration or landfill. Dispose of in accordance with all applicable local and national regulations. If adequately incinerated, it will decompose to Carbon Di Oxide and Water only. Biologically degradable.

Containers: Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near the container. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate close containers.

HANDLING AND STORAGE

Handling

Use in well ventilated area if product is handled hot. Avoid breathing mist or vapors from heated material. Avoid contact with eyes, skin and clothing.

Storage

Suitable Storage Materials are: Aluminum and its alloys. Mild Steel. High density Polyethylene.

Do Not Store in: Certain Plastic and Rubbers. Glass reinforced polyester.

For Gaskets and Seals use: Butyl Rubber

A reaction can occur between this product and concrete, thus leading to surface crumbling and a progressive loss of mechanical strength. Concrete is therefore not recommended for duties such as tank supports. For other areas where product spillage is likely to occur, ridged acid resistant tiles will provide better resistance to attack than concrete.

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EXPOSURE CONTROL / PERSONAL PROTECTION

Threshold Limit Value

TWA (8 hrs.) : 05.0 mg / m³
TWA (10 min.) : 10.0 mg / m³

Respiratory Protection

Respiratory protection is required if there is risk of breathing mists or vapors from heated materials. In this case use a mask with having appropriate filter cartridge.

Hand Protection

Protective gloves (Butyl Rubber or Nitrile Rubber).

Eye Protection

Chemical goggles if there is a risk of splashing.

Body Protection

Normal working clothing.

Hygiene Measures

Do not eat, drink or smoke during work time. Remove contaminated or soaked clothing immediately.

ECOLOGICAL EFFECTS

This product is not expected to be actually toxic to aquatic species due to its poor solubility.

Toxicity to fish, LC 50 (96 h) : 0.24 mg / liter (For Fathead Minnows)

TRANSPORTATION

This product is not classified for the purpose of transportation

Road Transport ADR / RID

Class : Not classified

Maritime Transport IMPG

Class : Not classified

Air Transport IATA

Class : Not classified

TOXICOLOGICAL INFORMATION

Low order of acute toxicity

LD50 ORAL – Rat : 27,000 mg / Kg.

LD50 Skin – Rabbit : 25,000 mg / Kg.

Sub-acute / Sub- chronic Toxicity

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The repeated oral administration can cause effects to tissues or Liver, Kidney & Spleen.

Chronic Toxicity / Carcinogenicity

Repeated ingestion of large amounts produces liver enlargement in animals. Lifetime consumption of large amounts in rats and mice will produce liver cancer. It is unlikely that there is any significant risk to man during normal handling and use of Plasticizer.

Reproductive / Developmental Toxicity

Although the majority of tests have indicated that Plasticizer is not selectively toxic to fetus, studies in the mice have shown an increased number of malformations after dietary administration of levels down to 0.05%. Adverse effects on the male reproductive system have been reported in laboratory animals following repeated exposure.

FIRE FIGHTING MEASURES

Suitable Extinguishing Agents

CO₂, Water Spray, Foam, Dry Chemical Powder. Keep containers and surroundings cool with water spray.

Unsuitable Extinguishing Agents

Water Jet.

Protective Equipment for Fire Fighting

Self contained breathing apparatus. Combustion will generate oxides of carbon, bitterly pungent smoke and irritation fumes.

REGULATORY ANED LABELING INFORMATION

Plasticizer is labeled according to following information: - **Hazard**

Label : **X** **Health Harmful**

Risk Phrases : **(R62) Possible risk of impaired fertility**
(R63) Possible risk of harm to unborn child.

Safety Phrases : **(S36) Wear suitable protective clothing**
(S37) Wear suitable protective gloves.

OTHER INFORMATION

This information is based on our present state of knowledge, being given in good faith and is intended to describe the product for the purpose of Health, Safety and Environment only. No warranty either expressed or implied is given which regard to the outcome of the use of such information.

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