

MATERIAL SAFETY DATA SHEET

Product name : DIOCTYL ADIPATE			
CSAS No : 103-23-1	Synonym: DOA, Di(2-ethylhexyl) adipate Bis(2-ethylhexyl) adipate $C_{22}H_{42}O_4$ Molecular mass : 370.5		
Manufacturer : PT TRIDOMAIN PERFORMANCE MATERIALS JI Prof. Dr Moh Yamin SH. Kawasan Industri Gresik Jawa Timur, Indonesia			
TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMTOMS	PREVENTION	FIRST AID FIGHTING
FIRE	Combustible	NO open flames	Powder, AFF, foam, carbon dioxide
EXPLOSION			
EXPOSURE			
Inhalation		Ventilation	Fresh air, rest.
Skin		Protective gloves	Remove contaminated clothes. Rinse skin with plenty of water and soap
Eyes	Redness, Pain	Safety spectacles	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor
Ingestion	Diarrohoea	Do not eat, drink, or smoke during work	Rinse mouth.
SPILLAGE DISPOSAL		PACKAGING & LABELLING	
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in vermiculite, sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment.			
EMERGENCY RESPONSE		STORAGE	
NFPA Code H0; F1; R0;		You should store this chemical under refrigerated temperatures and keep away from oxidizers, mineral acids and bases.	

DIOCTYL ADIPATE

IMPORTANT DATA

<p>Physical State : Appearance COLOURLESS TO YELLOW LIQUID</p> <p>Physical Dangers As a result of flow, agitation, etc. electrostatic charges can be generated.</p> <p>Chemical Danger Reacts with strong oxidants, acids, alkalis and nitrates</p> <p>Occupational Exposure Limits TLV (as TWA, ppm) : not established</p>	<p>Routes of Exposure The substance can be absorbed into the body by inhalation and by ingestion</p> <p>Inhalation Risk No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C</p> <p>Effect of Short Term Exposure The substance irritates the eyes. The substance may cause effect on the central nervous system</p> <p>Effect Long Term or Repeated Exposures The substance may have effects on the liver</p>
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PHYSICAL PROPERTIES

<p>Boiling point at 0.67 kPa : 214°C Melting point : -67.8°C Relative density (water=1) : 0.92 Solubility in water at 25°C, gr/100ml : nine Vapor pressure at 20°C, kPa : 0.11 Relative vapor density (air=1) = 12.8</p>	<p>Flash point : oc. 181°C Autoignition temperature : 395°C Explosive limits, vol% in air : 0.1 to ? Octanol /water partition coefficient as log Pow : 6.114</p>
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ENVIRONMENTAL DATA

This substance may be hazardous to the environment; special attention should be given to water

NOTES

Do Not take working clothes home.

ADDITIONAL INFORMATION

You should dispose of all waste and contaminated materials associated with this chemical as specified by existing local, state and federal regulations concerning hazardous waste disposal. It is suggested that your contaminated materials should be destroyed by incinerating in a special, high temperature (>2000°F) chemical incinerator facility.

REFERENCE:

International programme on Chemical Safety and European Commission CIPCS 1999, Electronic media (published in <http://www.ilo.org>)