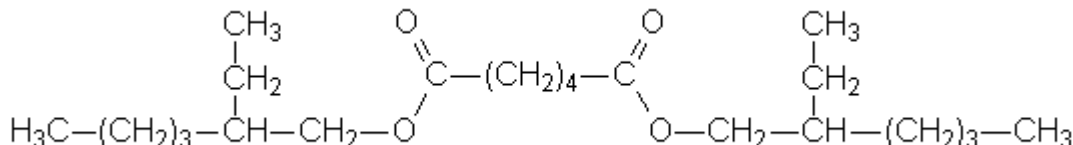


### 1. General Statement

Di Octyl Adipate is a colorless, oily liquid used as a plasticizer, particularly in plastics, solvents, and lubricants. It is a combustible substance, poorly flammable. Practically insoluble in water. Low or very low-volatile.

### 2. Chemical identity

Name : Di Octyl Adipate  
 CAS number(s) : 103-23-1  
 EC number : 203-090-1  
 Molecular formula : C<sub>22</sub>H<sub>42</sub>O<sub>4</sub>  
 Structure :



### 3. Uses and Benefits

Di Octyl Adipate is used in the washing & cleaning products, plant protection products, lubricants and greases, adhesives and sealants, polishes and waxes and coating products. Other release to the environment of this substance is likely to occur from: indoor use (e.g. machine wash liquids/detergents, automotive care products, paints and coating or adhesives, fragrances and air fresheners), outdoor use and outdoor use in close systems with minimal release (e.g. hydraulic liquids in automotive suspension, lubricants in motor oil and break fluids).

### 4. Physical / chemical properties

Property	Value
Physical state :	Liquid
Colour :	Colourless to light amber.
Odour :	Aromatic odour. Mild odour.
pH :	No data available
Melting point	-67.8 °C
Boiling point :	417 °C (1013.25 hPa)
Flash point :	196 °C (Closed cup, 1013.25 hPa)

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Density :	920 kg/m3 (20 °C, DIN 51757: Testing of mineral oils and related materials - Determination of density)
Solubility in Water:	< 0.1 mg/l (22 °C, EU Method A.6: Water solubility)

### 5. Health Effects

Effect Assessment	Result
Acute toxicity (Oral / inhalation / dermal )	Not Classified.
Irritation / corrosion Skin / eye/ respiratory tract	NA
Respiratory or skin sensitisation	NA
Toxicity after repeated exposure Oral / inhalation / dermal	NA
Genotoxicity / Mutagenicity	NA.
Carcinogenicity	NA.
Toxicity for reproduction	NA

### 6. Environmental Effects

Effect Assessment	Result
Aquatic toxicity	Yes
Fate and behavior	Result
Persistence and degradability	Readily biodegradable in water.
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 7. Exposure

#### Human health

The substance may cause cancer ,Harmful in contact with skin. Harmful if inhaled. Caution! Substance is absorbed through the skin.

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The most likely route of human exposure (workers) is through skin. In industrial settings, ingestion is not an anticipated route of exposure. Workers may be exposed during (un)loading, mixing, sampling, analysis or maintenance operations and particularly in case of batch processes.

The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

Careless handling or accidental spillage of the chemical could result in exposure to potentially hazardous levels of chemicals.

Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

### Environment

Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. Spillage shall be quickly collected in the event of an accidental release. More information about release measures and accidental release measures are available in the extended safety data sheet.

## 8. Risk Management Recommendations

### Human health measures

<b>Organizational</b>	A basic standard of occupational hygiene is recommended. Ensure operatives are well informed of the hazards and trained to minimise exposures. Ensure regular inspection and maintenance of equipment and machines. Handle and store according to the indications of the Safety Data Sheet.	
<b>Protection</b>	Eye protection:	Face shield (EN 166)
	Skin and body protection:	Protective clothing (EN 14605 or EN 13034)
	Respiratory protection:	High gas/vapour concentration: full face mask with filter type A
<b>Engineering controls</b>	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.Ensure good ventilation of the work station.	
<b>Environment protective measures</b>		
Product must not be released into water without pre-treatment.		

## 9. First-aid measures

**First-aid measures after inhalation** : Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

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**First-aid measures after skin contact** : If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. Irritation persists, consult a doctor/medical service.

**First-aid measures after eye contact** : Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

**First-aid measures after ingestion** : Rinse mouth with water. Immediately consult a doctor/medical service. Do not wait for symptoms to occur to consult the Poison Center.

## 10. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media : Foam. Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (alcohol-resistant). Water spray if the puddle cannot expand.

Unsuitable extinguishing media : Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : On heating/burning: release of (highly) toxic gases/vapours (sulphur oxides, carbon monoxide - carbon dioxide).

### **Advice for firefighters**

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Keep the container closed when not in use. Keep the container tightly closed and away from heat, sparks and flame.

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter a fire area without proper protective equipment, including respiratory protection.

## 11. Accidental release measures

**Protective equipment** : Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

**Environmental precautions**: Prevent soil and water pollution. Prevent spreading in sewers.

**For containment** : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Heat exposure: dilute toxic gas/vapour with water spray.

## 12. Disposal consideration

**Regional legislation (waste)** : Disposal must be done according to official regulations.

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**Waste treatment methods** : Dispose of contents/container in accordance with licensed collector's sorting instructions.

**Sewage disposal recommendations** : Disposal must be done according to official regulations.

### 13. Handling and storage

**Precautions for safe handling** : Keep away from naked flames/heat. In a finely divided state: use spark-/explosion proof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Keep the container tightly closed. Do not discharge the waste into the drain.

**Hygiene measures** : for strict hygiene

### 14. Classification and Labeling

Hazard pictograms (GHS US)

:



Signal word (GHS US)

Hazard statements (GHS US)

Precautionary statements (GHS US)

: Warning

: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

: P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.

P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a poison center or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 15. Conclusion

Di Octyl Adipate is a Combustible substance, colorless light red or Brownish liquid and harmful if swallowed, in contact with skin or if inhaled. The substance is hazardous to the aquatic environment.

Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies.

The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

### 16. Contact Information within company

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## Di Octyl Adipate

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### **Manufacturer**

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This GPS safety summary is intended to give general information about the health, safety and environmental and not intended to provide in-depth details. To obtain the most accurate and current information, consult the appropriate Safety Data Sheet (SDS) prior to use of the material named herein.