

REC'D NOV 16 2007

BASF Corporation

BASF

HELPING MAKE PRODUCTS BETTER™

Safety data sheet PLASTOMOLL® DOA

Revision date : 2004/04/27

Page: 1/6

Version: 1.1

(30034813/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF Corporation
3000 Continental Drive - North
Mount Olive, NJ 07828-1234

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Chemical family: adipic acid ester
Synonyms: DI-2-ETHYLHEXYL ADIPATE

Distributed By:
SAL Chemical
3036 Birch Drive
Weirton, WV 26062
304-748-8200
www.salchem.com

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
103-23-1	> 99.5 %	Di-2-ethylhexyladipate

3. Hazard identification

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

Wear full face shield if splashing hazard exists.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Ingestion may cause gastrointestinal disturbances.

Irritation:

Irritating to eyes and skin. Irritating to respiratory system.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

Safety data sheet

PLASTOMOLL® DOA

Revision date : 2004/04/27

Page: 2/6

Version: 1.1

(30034813/MDS_GEN_US/EN)

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

5. Fire-fighting measures

Flash point: 195 °C (DIN/ISO 2592)
Autoignition: 350 °C (DIN 51794)

Suitable extinguishing media:

carbon dioxide, dry extinguishing media, water spray, water, foam

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:

Do not empty into drains.

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal. Pick up with inert absorbent material (e.g. sand, earth etc.).

7. Handling and storage

Handling**General advice:**

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage**General advice:**

Containers should be stored tightly sealed in a dry place.

Safety data sheet

PLASTOMOLL® DOA

Revision date : 2004/04/27

Version: 1.1

Page: 3/6

(30034813/MDS_GEN_US/EN)

Storage incompatibility:

General: Segregate from strong oxidizing agents.

8. Exposure controls and personal protection

Personal protective equipment**Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour respirator. Wear the following respiratory protection if controls are not feasible: Wear a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact.

9. Physical and chemical properties

Form:	liquid	
Odour:	faint odour	
Colour:	colourless	
pour point:	-76 °C	(DIN/ISO 3016)
Boiling range:	210 - 218 °C	(7 mbar) (DIN 53171)
Vapour pressure:	0.021 mbar	(100 °C)
Density:	0.924 g/cm ³	(20 °C) (DIN 51757)
Partitioning coefficient n-octanol/water (log Pow):	8.94	(25 °C) (OECD Guideline 117)
Viscosity, dynamic:	13 - 15 mPa.s	(20 °C)
Solubility in water:	< 0.1 mg/l	(20 °C)
Solubility (qualitative):	soluble	
	solvent(s): organic solvents,	

10. Stability and reactivity

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

Reacts with strong oxidizing agents.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide

11. Toxicological information

Acute toxicity

Safety data sheet
PLASTOMOLL® DOA

Revision date : 2004/04/27

Page: 4/6

Version: 1.1

(30034813/MDS_GEN_US/EN)

Oral:

LD50/rat: > 5,000 mg/kg

Inhalation:

LC50/rat: > 5.7 mg/l / 4 h

An aerosol was tested.

rat:

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Dermal:

LD50/rabbit: 8,410 mg/kg

Skin irritation:

rabbit: non-irritant (BASF-Test)

Eye irritation :

rabbit: non-irritant (BASF-Test)

Sensitization:

guinea pig:

Skin sensitizing effects were not observed in animal studies.

12. Ecological information**Environmental fate and transport****Biodegradation:**

Test method: OECD 301F; ISO 9408; 92/69/EEC, C.4-D
Method of analysis: BOD of the ThOD
Degree of elimination: > 60 %
Evaluation: Readily biodegradable (according to OECD criteria).

Bioaccumulation:

sunfish, bluegill Bioconcentration factor 27
Does not significantly accumulate in organisms.

Environmental toxicity**Acute and prolonged toxicity to fish:**

Rainbow trout/LC50 (96 h): 54 - 150 mg/l

The product has low solubility in the test medium. An aqueous dispersion has been tested. The details of the toxic effect relate to the nominal concentration. Literature data.

Acute toxicity to aquatic invertebrates:

OECD Guideline 202, part 1 Daphnia magna/EC50 (48 h): > 500 mg/l

The product has low solubility in the test medium. An aqueous dispersion has been tested. The details of the toxic effect relate to the nominal concentration.

Toxicity to aquatic plants:

OECD Guideline 201 green algae/EC50 (72 h): > 500 mg/l

The product has low solubility in the test medium. An aqueous dispersion has been tested. The details of the toxic effect relate to the nominal concentration.

Safety data sheet PLASTOMOLL® DOA

Revision date : 2004/04/27

Page: 5/6

Version: 1.1

(30034813/MDS_GEN_US/EN)

Toxicity to microorganisms:

DIN 38412 Part 27 (draft) bacterium/EC50 (0.5 h): > 10,000 mg/l

The product has low solubility in the test medium. An aqueous dispersion has been tested. Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

DIN/EN/ISO 8192-OECD 209-88/302/EEC,P. C EC20: > 350 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Other ecotoxicological advice:

Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

Incinerate in a licensed facility.

Do not discharge substance/product into sewer system.

Contaminated packaging:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations**Registration status:**

TSCA, US

released / listed

State regulations**State RTK****CAS Number**

103-23-1

Chemical name

Di-2-ethylhexyladipate

State RTK

MA, NJ, PA

16. Other information

Recommended use: for industrial use only

HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information

PROD_STEW_CA_CP_CZ@BASF.COM

Safety data sheet
PLASTOMOLL® DOA

Revision date : 2004/04/27

Page: 6/6

Version: 1.1

(30034813/MDS_GEN_US/EN)

+1 973 426 4670

PLASTOMOLL is a registered trademark of BASF Corporation or BASF AG
IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN
ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR
GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE,
WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR
YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER
EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A
PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR
INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE
USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE
SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A
PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND
AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF
HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE
DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH
BEING GIVEN AND ACCEPTED AT YOUR RISK.
END OF DATA SHEET