



POTOMER

POTOMER

Material Safety Data Sheet

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIED BY: Shanghai Potomer International Trade Co.,Ltd

ADDRESS: Room 304 No.505 Caoyang Rd Shanghai China

POST CODE: 200061

For information in China, call:0086-21-61397128

For emergencies in the China, fax: 0086-21-61397125

CHEMICAL FAMILY/USE: Plasticizer

PRODUCT NAME: Dioctyl adipate

FORMULA: C₂₂H₄₂O₄

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Substances

Synonyms : Adipic acid di(2-ethylhexyl) ester

DOA

Formula : C₂₂H₄₂O₄

Molecular Weight : 370,57 g/mol

Component	Concentration
Bis(2-ethylhexyl) adipate	
CAS-No. 103-23-1	-
EC-No. 203-090-1	

SECTION 3 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin irritation (Category 2)

Eye irritation (Category 2)

Acute aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Irritating to eyes and skin. Very toxic to aquatic organisms.

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER



Pictogram

Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H400

Very toxic to aquatic life.

Precautionary statement(s)

P273

Avoid release to the environment.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard

none

Statements

According to European Directive 67/548/EEC as amended.



Hazard symbol(s)

R-phrases(s)

R36/38

Irritating to eyes and skin.

R50

Very toxic to aquatic organisms.

S-phrases(s)

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36

Wear suitable protective clothing.

S61

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Other hazards - none

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fluka - 02140 Page 3 of 7

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

no data available

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER

SECTION 7 - HANDLING and STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end uses

no data available

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER

respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- a) Appearance Form: liquid
- b) Odour no data available
- c) Odour Threshold no data available
- d) pH no data available
- e) Melting point/freezing point
Melting point/range: 70 °C - lit.
- f) Initial boiling point and boiling range
175 °C at 3 hPa - lit.
- g) Flash point 196 °C - closed cup
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits
no data available
- k) Vapour pressure no data available
- l) Vapour density no data available
- m) Relative density 0,925 g/cm³ at 20 °C
- n) Water solubility no data available
- o) Partition coefficient: noctanol/water
no data available
- p) Autoignition temperature
no data available
- q) Decomposition temperature
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER

Other safety information

no data available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity

no data available

Chemical stability

no data available

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - no data available

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 9.100 mg/kg

LD50 Dermal - rabbit - 14.800 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Bis(2-ethylhexyl) adipate)

Reproductive toxicity

no data available

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes serious eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: AU9700000

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia - 0,66 mg/l - 48 h

Toxicity to algae LC50 - Pseudokirchneriella subcapitata - > 0,78 mg/l - 96 h

Persistence and degradability**Bioaccumulative potential**

Bioaccumulation Lepomis macrochirus - 28 d -250 µg/l
Bioconcentration factor (BCF): 27

Mobility in soil

no data available

Results of PBT and vPvB assessment

no data available

Other adverse effects

Very toxic to aquatic life.

no data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(2-ethylhexyl) adipate)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(2-ethylhexyl) adipate)

IATA: Environmentally hazardous substance, liquid, n.o.s. (Bis(2-ethylhexyl) adipate)

Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

Packaging group

ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings

containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15 - REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

Chemical Safety Assessment

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd, Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com



POTOMER

POTOMER

no data available

SECTION 16 - ADDITIONAL INFORMATION

The above information is usual data and not be regarded as technically standard.when using,which is according as regulate of environment and transport. However, we make no warranty of merchantability or any other warranty, express or implied,with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Shanghai Potomer International Trade Co., Ltd.

Room 304 NO.505 Caoyang Rd,Shanghai, China

TEL: 86-21-61397126

FAX: 86-21-61397125

www.potomer.com