MATERIAL SAFETY DATA SHEET OF PHTHALIDE

SECTION 1. PRODUCT IDENTIFICATION

MSDS Name: Phthalide
Chemical Formula: C₈H₆O₂
Synonym: -
B-34, Unit-III, M.I.D.C. Badlapur (E), Dist. Thane, 421 503.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>87-41-2</td>
<td>Phthalide</td>
<td>100</td>
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</tbody>
</table>

SECTION 3. HAZARD IDENTIFICATION

Classification of the substance or mixture
Not a dangerous substance according to GHS.
This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements
The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards - none

SECTION 4. FIRST AID

Description of first aid measures
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed
Indication of immediate medical attention and special treatment needed
no data available
SECTION 5. FIRE AND EXPLOSION

Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

Precautions for fire-fighters
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
Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed. 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.

Specific end uses
no data available

SECTION 8. PERSONAL PROTECTION/EXPOSURE CONTROLS

Control parameters
Components with workplace control parameters
Exposure controls
Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment
Eye/face protection
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
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline powder
Appearance: white to light beige
Odor: None reported.
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 290 deg C @ 760 mmHg
Freezing/Melting Point: 70 - 73 deg C
Decomposition Temperature: Not available.
Solubility: slightly soluble
Specific Gravity/Density: Not available.
Molecular Formula: C8H6O2
Molecular Weight: 134.13
SECTION 10. REACTIVITY/STABILITY

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
no data available

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
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
no data available

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. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.
Skin  May be harmful if absorbed through skin. May cause skin irritation.
Eyes   May cause eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
Results of PBT and vPvB assessment
no data available
Other adverse effects
no data available

SECTION 13. DISPOSAL

Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

SECTION 14. TRANSPORTATION

UN-Number
ADR/RID: - IMDG: - IATA: -
UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -
Packaging group
ADR/RID: - IMDG: - IATA: -
Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for users
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
no data available

SECTION 16 - ADDITIONAL INFORMATION

This document is intended only as a guide to the appropriate precautionary handling of material by a person trained in chemical handling. The user is responsible for determining the precautions & dangers of this chemical for his or her particular application depending on usage. Adequate protective clothing, including eye / face guards, approved respirators must be used to avoid contact with the material or breathing chemical vapors / fumes. Exposure to this product may cause adverse health effects.

This chemical may interact with other substances. since the potential uses are so varied, M/s. Omkar Speciality Chemicals limited. Ltd. cannot warn of all of the potential dangers of use or interaction with chemicals of materials. M/s Omkar Speciality Chemicals limited. warrants that, the chemical meets the specifications set forth on the test report.

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READ ALL PRECAUTIONARY INFORMATIONS