



HPL Additives Limited

SAFETY DATA SHEET

In Accordance with OSHA 29 CFR 1910.1200 HCS

MIKROFINE® OBSh-300

1 IDENTIFICATION

Product Identifier

Trade Name : MIKROFINE® OBSh-300
 Substance /Mixture : Mixture
 CAS No. : ---

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Chemical blowing agent

Details of the supplier of the safety data sheet

Manufacturer/ Supplier : 5th Floor, Block A,
 Vatika Mindscapes,
 12/3, Main Mathura Road,
 Faridabad:121003, Haryana(India)

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 Prepared by : Product Compliance and Regulatory Affairs Department

Emergency telephone number

Emergency Phone # : +91-9910486232

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification : **According to Regulation OSHA 29 CFR 1910.1200 HCS**
 Acute Toxicity – Oral Category 4
 Skin Corrosion/Irritation Category 2
 Serious eye damage/ eye Irritation Category 2
 Skin sensitization Category 1
 Germ cell mutagenicity - Category 2
 STOT Rep. Exp.- Category 2
 Aquatic Chronic – Category 1

Label Elements

: **HAZARD PICTOGRAMS**



SIGNAL WORD – WARNING

HAZARD STATEMENTS

H302 Harmful if swallowed
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H341 Suspected of causing genetic defects
 H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure.
 H 410 Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

Prevention

P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapours/ spray
 P264 Wash thoroughly with plenty of water after handling
 P270 Do not eat, drink or smoke when using this product
 P272 Contaminated work clothings should not be allowed outside of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing /eye protection/face protection.
 P281 Use personal protective equipments as required

Response

P330 Rinse mouth
 P362 Take off contaminated clothing and wash before reuse
 P301 +P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention

P305 + P351 + P338 If in eyes: Rinse cautiously with water for Several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 If eye irritation persists: Get medical advice/attention

P308 + P313 If exposed or consumed: Get medical advice/attention

P391 Collect spillage

Storage
P405 Store locked up

Disposal
P501 Dispose of contents/container in accordance with local/regional/national/International regulations

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Mixture | | | | |
|---------------------------|------------|---|-----------------------------|-------------|
| Chemical Characterization | CAS number | Identification name | Weight % content (or range) | TSCA Status |
| Mixture | 80-51-3 | 4,4'-oxydi (benzenesulphonohydrazide) Other Name: Diphenyl Oxide 4,4'-Disulphonyl Hydrazide | > 97 | Active |
| | -- | Metallic Stearate | < 3 | Active |

4 FIRST AID MEASURES

Description of first aid measures

- Eye** : In case of eye contact, wash thoroughly with water. Seek medical advice.
- Skin** : In case of skin contact, wash thoroughly with water. Seek medical advice if necessary.
- Ingestion** : If product is swallowed, transfer patient to hospital and seek medical advice.
- Inhalation** : Take patient into a well-ventilated area and seek medical Advice if necessary.

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 information available

5 FIRE FIGHTING MEASURES

| | |
|--|---|
| Extinguishing Media | |
| Suitable Extinguishing Media | : Water, dry chemical and foam. |
| Unsuitable Extinguishing Media | : High volume water jet. |
| Special hazards arising from the substance or mixture | : Dust may form explosive mixture with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. |
| Advice for firefighters | : Full protective clothing and self-contained breathing apparatus must be worn during fire fighting. |
| Other Information | : During fire fighting contaminated water from fire hoses or sprinklers etc., must be prevented from draining into watercourses, sewers, or the ground water. |

6 ACCIDENTAL RELEASE MEASURES

| | |
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| Personal precautions, protective equipment and emergency procedures | : Use proper personal protective equipment. Avoid generating dusty conditions. Remove all source of ignition. Provide ventilation. |
| Environmental precautions | : Prevent contamination of soil, drain and surface water. Product should not be allowed to enter into local drainage or sewer systems. |
| Methods and materials for containment and cleaning up | : Any spillage should be removed, Preferably by vacuum and stored in labeled containers. |
| Reference to other sections | : For disposal see section 13. |

7 HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | : Wear protective clothing including breathing apparatus and safety goggles, or eye protection. Wash hands and face thoroughly after handling. Avoid ingestion and inhalation. Avoid dispersion of dust to reduce fire and explosion potential. Take precautionary measures against static discharge. |
| Conditions for safe storage, including any incompatibilities | : Keep product pack closed & dry in original container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container tightly closed when not in use. Keep away from direct sunlight and any source of ignition. |
| Further information on storage | : Separate from combustible storage by 8ft. aisles or isolate in a detached building. Do not store over 4ft. high unless sprinklers are hydraulically designed to produce a density of 0.5gpm/sq. ft. over the entire area. |
| Specific end uses | : No data available |

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|-------------------------------|---|
| Control parameters | : Exposure Limit values: ACGIH - TLV-TWA = 0.1 mg/m ³ |
| Exposure controls | |
| Respiratory Protection | : Use adequate ventilation to keep airborne Concentrations low. If vent inadequate use NIOSH/MSHA/European Standard EN 149 approved respirator. If user develops sensitivity to respiratory tract whilst using product, the user should not be exposed to the product any longer. Allergy to the product normally takes the form of an asthmatic type of attack e.g., wheezing, tightness of breath. Seek medical advice. |
| Eye protection | : Wear appropriate protective eyeglasses or chemical safety goggles. |
| Skin Protection | : Wear appropriate protective gloves and Protective clothing to prevent skin exposure |
| Engineering Control | : Do not allow dust to accumulate on equipments and building surfaces. If cleaning becomes necessary, use explosion proof/non-sparking vacuum cleaning equipments to eliminate potential ignition sources and to minimize dispersal of dust in air. All electrical equipment and devices must meet Class II, Div.II. Electrical motors must be totally enclosed Fan-cooled. |

9 PHYSICAL AND CHEMICAL PROPERTIES

| Information on basic physical and chemical properties | |
|--|-------------------------|
| Appearance | : Solid powder |
| Colour | : White/Off white |
| Odour | : Characteristics odour |
| Odour Threshold | : Not Available |
| Meltingpoint/ Freezing point (°C) | : Not Applicable |
| Boiling point and Boiling range (°C) | : Not available |
| Decomposition Temperature (°C) | : 150-156 |
| pH value (4% aqueous suspension) | : Not Available |
| Concentration | : Not Available |
| Flash Point | : Not Available |
| Evaporation Rate | : Not Applicable |
| Flammability (Solid/Gas) | : Not Available |
| Upper/ Lower Flammability or Explosive Limits | : Not Available |
| Vapour pressure | : Not Available |

| | | |
|---|---|--------------------|
| Vapour Density | : | Not Available |
| Relative density (gm/cc) | : | ~1.55 |
| Solubility | : | Soluble in DMSO |
| Water Solubility | : | Insoluble in water |
| Partition coefficient-n octanol/ water | : | Not available |
| Oxidising properties | : | Not available |
| Auto ignition temperature | : | Not available |
| Viscosity | : | Not Applicable |

10 STABILITY AND REACTIVITY

| | | |
|---|---|--|
| Reactivity | : | No information available |
| Chemical stability | : | Stable under ordinary conditions. Self-accelerating decomposition during prolonged storage at or above 70°C |
| Possibility of hazardous reactions | : | No data available |
| Condition to avoid | : | Excess heat, ignition sources, heat source and dust generation. |
| Incompatible material | : | No information available |
| Hazardous decomposition products | : | Although MIKROFINE® MIKROFINE® OBSH-M300 decomposes quickly above 140°C, it can decompose slowly when heated above 50°C. Although MIKROFINE® OBSH-M300 decomposes to release nitrogen and water at normal decomposition temperatures, its decomposition products can be volatile and explosive in fire conditions. Dense smoke will be generated during fire. Hazardous reactions-Dangerous reactions are possible when MIKROFINE® OBSH-M300 is decomposed in the presence of alkalis, transition metal salts (e.g., Zn salts), amines and oxidizing agents. |

11 TOXICOLOGICAL INFORMATION

Information of Toxicological effect

Harmful if swallowed, inhaled or absorbed through skin. May cause irritation.

| | | |
|------------------------|---|---|
| Oral toxicity | : | LD 50 (rats) >2000mg/kg |
| Dermal toxicity | : | LD 50 (rabbits) >200mg/kg |
| Irritation | : | Eye (rabbits): Slight Skin (rabbits): Negative |
| Genotoxicity | : | Ames Salmonella: Positive CHO-HGPRT: Negative Unscheduled DNA synthesis: Negative |

| | | |
|-----------------------------|---|--------------------------|
| Carcinogenicity | : | No information available |
| Epidemiology | : | No information available |
| Teratogenicity | : | No information available |
| Reproductive effects | : | No information available |
| Neurotoxicity | : | No information available |
| Mutagenicity | : | No information available |

12 ECOLOGICAL INFORMATION

| | | |
|---|---|--|
| Toxicity | : | No data available |
| Persistence and degradability | : | 4,4'-oxydi(benzenesulphonohydrazide)/ Diphenyl Oxide 4,4'-Disulphonyl Hydrazide is not expected to undergo hydrolysis in the environment due to the lack of functional groups that hydrolyze under environmental conditions. The substance does not contain chromophores that absorb at wavelengths >290 nm and therefore is not expected to be susceptible to direct photolysis by sunlight. Biodegradation is not expected to be an important environmental fate process |
| Bioaccumulative potential | : | The material is expected to have low bioaccumulative potential |
| Mobility in soil | : | 4,4'-oxydi(benzenesulphonohydrazide)/ Diphenyl Oxide 4,4'-Disulphonyl Hydrazide is expected to have low mobility in soil. |
| Results of PBT and vPvB assessment | : | 4,4'-oxydi(benzenesulphonohydrazide) not a PBT / vPvB |
| Other adverse effects | : | No data available |

13 DISPOSAL CONSIDERATIONS

| | |
|--------------------------------|--|
| Waste treatment methods | |
| Product | : Recover or recycle if possible, otherwise perform incineration. |
| Contaminated packaging | : Contaminated container should be disposed off. Accordingly uncontaminated container should be thoroughly cleaned with water or solvent and then can be recycled. |

14 TRANSPORTATION INFORMATION

This product is considered to be hazardous for Transport by Road/Rail/Sea/Air and thus regulated by ADR/RID/IMDG/IATA

| | | |
|--|---|--|
| UN Number | : | 3226 |
| UN proper shipping name | : | SELF- REACTIVE SOLID, TYPE D (4,4'-oxydi (benzenesulphonohydrazide) / Diphenyl Oxide 4,4'- Disulphonyl Hydrazide |
| Transport hazard class(es) | : | 4.1 |
| Packaging group | : | N/A |
| Environmental hazard | : | No |
| Special precaution for Users | : | N/A |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC code | : | N/A |

15 REGULATORY INFORMATION

Chemical Inventory

| | | |
|--|---|---|
| Canada | : | This product is on DSL |
| Europe | : | The product is on EINECS inventory. |
| United States | : | This product is on the TSCA inventory. |
| Australia | : | This product is on the AICS inventory. |
| China | : | This product is on the IECSC inventory. |
| Japan | : | This product is on the ENCS inventory, |
| Korea | : | This product is listed on the Existing Chemicals list(ECL) |
| Philippines | : | This product is on the PICCS. |
| EPCRA Section 302 Extremely Hazardous Substances (SARA Title III) | : | Not Reportable |
| CERCLA Hazardous Substances | : | Not Reportable |
| EPCRA Section 313 Toxic Chemicals | : | Not Reportable |
| CAA 112 (r) | : | Not Reportable |
| Proposition 65 (California) | : | Not Listed |

16 OTHER INFORMATION

| | | | |
|----------|----------------|--------------|--------|
| Health:1 | Flammability:3 | Reactivity:2 | PPI: X |
|----------|----------------|--------------|--------|

| | | |
|---------|---|--|
| 0(HMIS) | : | No hazard |
| 1(HMIS) | : | Slight hazard |
| 2(HMIS) | : | Moderate hazard |
| 3(HMIS) | : | Serious hazard |
| 4(HMIS) | : | Severe hazard |
| X(HMIS) | : | Personal protection rating to be supplied by user depending on use conditions. |

Information which has been added, deleted or revised

This safety data sheet is drawn up to comply with the requirements of OSHA Hazard communication standard.

This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.

The information given in this document is only a recommendation believed to be reliable and is given in good faith but without warranty. Our advice does not release users from the obligation of checking its validity and to test our products as to their suitability for the intended use. Specified properties mentioned in this document are based on our historical production performance and these properties or the whole document is subject to change without any prior notice at our sole discretion. We are under no obligation to call back earlier issued documents.