

Rubbond OSCH-M

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer TWC Rajsha Chemicals Private Ltd. 637 Lamdapura Road, At Manjusar, Ta Savli, Dist Vadodara 391775, Gujarat, India Tel: +91 96620 49271	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Rubbond OSCH-M	Chemical Name: Oil Treated Silica coated Hexamethylene Tetramine
Relevant identified uses of the substance or mixture and uses advised against: No additional information available.	Use of the Substance/mixture: Curing of phenol formaldehyde and resorcinol formaldehyde resin, rubber to textile adhesives, organic synthesis, and rubber accelerator
Issued By: Sovereign Chemical Company According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: October 26, 2023

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008

Flammable Solid 2 H228

Sensitization — Skin, Category 1 H317

Hazard Pictograms



Signal Word – Warning

Hazard Statements

H317 - May cause an allergic skin reaction

H228 -Flammable

Precautionary Statements

P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P241: Use explosion-proof [electrical/ventilating/lighting] equipment.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P302+P352: IF ON SKIN: Wash with plenty of water

Child-resistant fastening – No

Tactile warning – No

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical Name	CAS No	EC No	Weight %	Classification
Hexamethylene Tetramine	100-97-0	202-905-8	≥94%	Flammable - Category 2 Skin – Category 1
Silica, amorphous	112926-00-8	231-545-4	≤3%	N/A
Rubber Processing Oil	64742-52-5	N/A	≤3%	N/A

The remaining unspecified ingredients are impurities and are not hazardous.

4. FIRST AID MEASURES

Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Seek immediate medical advice. Get medical advice/attention. Specific treatment (see Rinse thoroughly with plenty of water for at least 20 minutes and take medical advice, Seek immediate medical advice on this label). Wash contaminated clothing before reuse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, or redness persists.

First-aid measures after ingestion: Rinse mouth. Obtain emergency medical attention. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Explosion hazard: Emits toxic fumes under fire conditions.

Hazardous decomposition products in case of fire: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

Advice for firefighters

Firefighting instructions: Prevent fire-fighting water from entering environment. Use water spray or fog for cooling exposed containers. As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not approach fire except upwind and only with proper skin and respiratory protection (supplied air only). Remove the bags containing the product from the area on fire, if such can be done without any risks.

Protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Protective equipment: Wear protective gloves and eye/face protection.

Emergency procedures: Evacuate unnecessary personnel. Stop leak, if possible, without risk. Dust deposited may be vacuum cleaned or the area hosed down with water.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection. Wear a NIOSH approved respirator.

Emergency procedures : Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

7. HANDLING AND STORAGE

Precautions for safe handling : Avoid all contact with skin, eyes, or clothing.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Avoid breathing gas, mist, spray, vapours, fume. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well-ventilated place away from : Heat sources. Keep container closed when not in use.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Control parameters

Industrial Use

Material	Type	Value
Hexamethylene Tetramine	TWA	100 micro grams/m3

Biological limit values : No biological exposure limits noted for the ingredient(s)

Exposure controls

Personal protective equipment : Avoid repeated or prolonged skin contact. According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn. Chemical resistant protective apron/clothing (tested to EN 14605 or equivalent). Safety glasses. Rubber boots. Solvent-resistant apron. Remove contaminated clothing. Use multi-purpose combination (US) or type ABEK (EN) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection : Wear protective gloves. 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.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Avoid breathing dust/fume/gas/mist/vapors/spray. Wear appropriate mask. Where risk assessment shows airpurifying 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 respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other information : Do not eat, drink, or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance Form: Solid. Color: White.	Change in Condition Melting Point/Range: Sublimes at 280°C Boiling point/Range: Not determined.
Odor: Ammonia type.	Relative density: 1.3 g/cm ³ (typical)
Odor threshold: Not determined.	pH value: Not determined.
Vapor Pressure: 18.5 mm Hg	Flash point: 250°C, closed cup
Density at 20 °C: Not determined.	Flammability (solid, gaseous): Nonflammable
Vapor Density: Not determined.	Ignition temperature: 390°C
Evaporation rate: Not determined.	Decomposition temperature: Not determined
Solubility in / Miscibility with water: No data available.	Self-igniting: Product is not self-igniting.

Partition coefficient (nOctanol/water): Not determined.	Danger of explosion: The material can form flammable dust clouds in air.
Viscosity Dynamic: Not determined. Kinematic: Not determined	Explosion limits Lower: Not determined. Upper: Not determined.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Keep away from extreme heat, sparks, open flame, and strongly oxidizing conditions.

Incompatible materials: Strong oxidizing agents and nitrates. Strong acids. Sodium peroxide.

Hazardous decomposition products: NO_x, Formaldehyde, Ammonia. Irritating toxic fumes or gases. Emits toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Hexamethylene Tetramine (CAS No.100-97-0)

LD50 (Dermal Rat) : >2000 mg/kg bw

LD50 (Oral Rat) : >2000 mg/kg bw

LD50 (Oral Mouse) : 569 mg/kg bw

Silica, Amorphous (CAS No.112926-00-8)

LD50 (Dermal Rabbit) : >5000 mg/kg bw

LD50 (Oral Rat) : >2000 mg/kg bw

LC50 (Inhalation Rat) : >2.2 mg/l (exposure time: 1 hour)

Reproductive toxicity : Not classified.

Specific target organ toxicity (single exposure) : Not classified.

Specific target organ toxicity (repeated exposure) : Not classified.

Aspiration hazard : Not classified.

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Toxicity:

Hexamethylene Tetramine (CAS No.100-97-0)

EC50 (Daphnia 1) : >25,000 mg/l (48 hr exposure)

EC50 (Daphnia 2) : >10,000 mg/l (96 hr exposure)

Silica, Amorphous (CAS No.112926-00-8)

LC50 (Fish 1) : 5000 mg/l (96 hr exposure)

EC50 (Daphnia 2) : 7600 mg/l (48 hr exposure)

EC50 (Algae 1) : 440 mg/l

Persistence and degradability: Not established.

Bioaccumulative potential: Not established.

Mobility in soil: No additional information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Recommendation: Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORTATION INFORMATION

UN-Number

DOT, ADR, ADN, IMDG, IATA UN 1328

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Hexamethylene Tetramine

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA Class 4.1

Packing group

DOT, ADR, IMDG, IATA III

Environmental hazards

Marine pollutant No

Special precautions for user

Not applicable

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.
UN "Model Regulation"

15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

SARA Section 355 (extremely hazardous substances)	None of the ingredients are listed.
SARA Section 313 (Specific toxic chemical listings)	None of the ingredients are listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed.
Proposition 65 (California)	
Chemicals known to cause cancer	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients are listed.
Chemicals known to cause developmental toxicity	None of the ingredients are listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	None of the ingredients are listed.
IARC (International Agency for Research on Cancer)	None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH)	None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed.
Canada	
Canadian Domestic Substances List (DSL)	All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients are listed.
Canadian Ingredient Disclosure list (limit 1%)	None of the ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.



Safety Data Sheet