

Rubbond HM72

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer TWC Rajsha Chemicals Private, Ltd. 637 Lamdapura Road, At Manjusar, Ta Savli, Dlst 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 HM72, HMMM	Chemical Name: Resorcinol Formaldehyde Resin
Relevant identified uses of the substance or mixture and uses advised against: Used in Melamine Formaldehyde Resin and related industrial product	
Issued By: Sovereign Chemical Company According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: November 27, 2018

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012)

The following Hazard Statements are applicable to EU regulations and US GHS regulations:

GHS07

Acute toxicity (inhalation: dust, mist), Category 4
 Sensitization — Skin, Category 1
 Carcinogenicity Category 2

H332 Harmful if swallowed.
 H317 Causes skin irritation
 H351 Causes serious eye irritation.

Hazard Pictograms



Signal word: Warning

Hazardous ingredients : 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, methylated

Hazard statements (CLP) : H317 - May cause an allergic skin reaction
 H332 - Harmful if inhaled
 H351 - Suspected of causing cancer (if inhaled)

Precautionary statements (CLP) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing mist, fume, vapors
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective clothing, eye protection, face protection, protective gloves

Child-resistant fastening : No

Tactile warning : No

3. COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation (EC) No 1907/2006 (REACH) with its amendment Regulation (EC) No 453/2010.

1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, methylated
(CAS No) 68002-20-0
>= 72%

Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Carc. 2, H351

Silica, amorphous substance with national workplace exposure limit(s) (AT, CZ, DE, FI, GB, IE, LV, SK)
(CAS No) 7631-86-9 (EC no) 231-545-4
≤ 28%

Not classified

Formaldehyde substance with national workplace exposure limit(s) (AT, BG, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SK)
(CAS No) 50-00-0 (EC no) 200-001-8 (EC index no) 605-001-005
< 0.1%

Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation: gas), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT SE 3, H335 Acute Tox. 3 (Inhalation:dust,mist), H331 Carc. 1A, H350

Formaldehyde

(CAS No) 50-00-0 (EC no) 200-001-8 (EC index no) 605-001-005
(C ≥ 0.2) Skin Sens. 1, H317 (5 = C < 25) Eye Irrit. 2, H319 (5 = C < 25) Skin Irrit. 2, H315 (C ≥ 5) STOT SE 3, H335 (C ≥ 25) Skin Corr. 1B, H314

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). Suspected of causing cancer (INHALATION).

First-aid measures after inhalation: Allow breathing of fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause an allergic skin reaction.

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.

Special hazards arising from the substance or mixture

Fire 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: Inform Fire Brigade. 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. Wear protective clothing as described in Section 8 of this safety data sheet.

Emergency procedures: Evacuate personnel to a safe area.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

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

Precautions for safe handling : 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 vapor. Use only outdoors or in a well-ventilated area. Avoid breathing gas, mist, spray, vapors, fume. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Formaldehyde (50-00-0)

Canada (Quebec)	PLAFOND (mg/m ³)	3 mg/m ³
Canada (Quebec)	PLAFOND (ppm)	2 ppm
USA - ACGIH	Local name	Formaldehyde
USA - ACGIH	ACGIH Ceiling (ppm)	0.3 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr; SEN; A2
USA - IDLH	US IDLH (ppm)	20 ppm
USA - NIOSH	NIOSH REL (TWA) (ppm)	0.016 ppm
USA - NIOSH	NIOSH REL (ceiling) (ppm)	0.1 ppm
USA - OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm
USA - OSHA	OSHA PEL (STEL) (ppm)	2 ppm (see 29 CFR 1910.1048)

Silica, amorphous (7631-86-9)

USA - IDLH	US IDLH (mg/m ³)	3000 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³

Exposure controls

Personal protective equipment : Materials for protective clothing

Materials for protective clothing : 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. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Respiratory protection : Wear appropriate mask. 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 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: Powder. Color: White.	Change in Condition Melting Point/Range: Not determined Boiling point/Range: Not determined.
Odor: Formaldehyde type.	Relative density: 1.34 g/cm ³ (typical)
Odor threshold: Not determined.	pH value: Not determined.
Vapor Pressure: 18.5 mm Hg	Flash point: > 93°C
Density at 20 °C: Not determined.	Flammability (solid, gaseous): Nonflammable
Vapor Density: Not determined.	Ignition temperature: > 325°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: Product does not present an explosion hazard.
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 at ambient temperature and under normal conditions of use.

Possibility of hazardous reactions: No data available.

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

Incompatible materials: Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Inhalation :dust, mist: Harmful if inhaled.

ATE CLP (dust, mist) 2.083 mg/l/4h

Formaldehyde (50-00-0)

LD50 oral rat 100 mg/kg

LD50 dermal rabbit 270 mg/kg

LC50 inhalation rat (mg/l) 0.578 mg/l/4h

Silica, amorphous (7631-86-9)

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 2000 mg/kg

LC50 inhalation rat (mg/l) > 2.2 mg/l (Exposure time: 1 h)

Skin corrosion/irritation : Not classified Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified Based on available data, the classification criteria are not met

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Based on available data, the classification criteria are not met

Carcinogenicity : Suspected of causing cancer (if inhaled).

Reproductive toxicity : Not classified Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified Based on available data, the classification criteria are not met

Aspiration hazard : Not classified Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Harmful if inhaled.

12. ECOLOGICAL INFORMATION

Toxicity

Formaldehyde (50-00-0)

LC50 fish 1	22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Silica, amorphous (7631-86-9)

LC50 fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
EC50 72h algae (1)	440 mg/l (Species: Pseudokirchneriella subcapitata)

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 Not regulated

UN proper shipping name
DOT, ADR, ADN, IMDG, IATA Not regulated

Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA Class Not regulated

Packing group
DOT, ADR, IMDG, IATA Not regulated

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)

SARA Section 355 (extremely hazardous substances)	None of the ingredients is listed.
SARA Section 313 (Specific toxic chemical listings)	None of the ingredients is listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed
Proposition 65 (California)	
Chemicals known to cause cancer	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.

Chemicals known to cause developmental toxicity	None of the ingredients is listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	None of the ingredients is listed.
IARC (International Agency for Research on Cancer)	108-46-3 resorcinol 3
TLV (Threshold Limit Value established by ACGIH)	108-46-3 resorcinol. A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed.
Canada	
Canadian Domestic Substances List (DSL)	All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)	108-46-3 resorcinol

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.

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation: gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Carc. 1A	Carcinogenicity, Category 1A
Carc. 2	Carcinogenicity, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Sensitization — Skin, Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer