



MATERIAL (SAFETY DATA SHEET)

PRODUCT PREMIUM BOND 20

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I. Product Identification

Product code: 30081, 30088, 30089, 30705, 30706

Application of the substance/ the mixture: Adhesive

Manufacturer/Supplier
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II. Hazard identification

Signal word DANGER



GHS05 Corrosion
Eye Dam. 1 H318 Causes serious eye damage.



Health = 1
Fire = 1
Reactivity = 1



GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 May cause respiratory irritation.

| | | |
|------------|---|----------------|
| HEALTH | 1 | Health = 1 |
| FIRE | 1 | Fire = 1 |
| REACTIVITY | 0 | Reactivity = 0 |

Hazard description: Irritant
The product is classified and labeled according to the Globally Harmonized System (GHS).

Appearance: Transparent

Physical state: Liquid

Target Organ Effects: Skin, EYES, inhalation, ingestion

GHS label elements, including precautionary statements

Hazard statements: Causes skin irritation and serious eye damage. May cause an allergic skin reaction and respiratory irritation. May be harmful if swallowed.

Precautionary Statements - Prevention: Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/clothing/eye and face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well ventilated area.

Precautionary Statements - Response: Get medical advice/attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth.

Precautionary statements - Storage: Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal: Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) : NONE

III. Composition

| Chemical Name | Weight-% | C.A.S. number | |
|--------------------------------------|----------|---------------|--|
| Isobornyl Acrylate | 10-25% | 5888-33-5 | Skin irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE3, H335 |
| 2-Hydroxyethyl Methacrylate | 2.5-10% | 868-77-9 | Skin irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317 |
| Acrylic Acid | 1-5% | 79-10-7 | Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302, H312, H332 |
| 3-trimethoxysilylpropyl methacrylate | <2.5% | 2530-85-0 | STOT SE3, H335 |
| Maleic acid | <1.0% | 110-16-7 | Flam. Liq. 4, H227 |
| | | | Acute Tox. 4, H302; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 |

IV. First Aid Measures

Eye Irritation: Immediately flush eyes with plenty of water for at least 15 minutes.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Inhalation: Remove affected person to fresh air.

Ingestion: Low toxicity; Seek medical attention.

If any symptoms persist seek medical attention.

Note to physicians: Treat symptomatically

V. Fire-Fighting Measures

Suitable extinguishing media:

Use CO₂, dry chemical, or foam.

Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical:

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NOX), dense black smoke.

Hazardous combustion products:

Hazardous decomposition products due to incomplete combustion.

Explosion data:

NONE

Protective equipment and precautions for fire fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

VI. Accidental Release Measure

Personal safety:

Ensure adequate ventilation. Wear Suitable gloves and eye/face protection.

Environmental safety:

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

VII. Storage and Handling Procedures.

Storage:

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat.

Handling:

Handle in accordance with good industrial hygiene and safety practices. Ensure adequate ventilation. Protect from light.

Incompatible products:

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

VIII. Exposure Controls and Personal Protection

| Chemical name | TLV | REL |
|----------------------|--|--|
| 79-10-7 Acrylic Acid | Long-term value: 5.9 mg/m ³ , 2 ppm | Long-term value: 6 mg/m ³ , 2 ppm |

General protective and hygienic measures: Keep away from food stuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory: Positive fresh air exhaust should be provided in the work area; respiratory equipment is unnecessary in normal use.

Skin: Avoid skin contact. Wear gloves and impervious protective clothing if frequent direct contact is likely.

Eyes: Do not wear contact lenses. Chemical safety goggles are recommended.

IX. Physical and Chemical Properties.

| | | | | | |
|-----------------------|-----------------------|------------------------------|----------------|-------------------------|----------------|
| Appearance: | Transparent Fluid | Viscosity | Not Determined | pH-value | Not Determined |
| Density @ 68°F 20°C: | 1.1 g/cm ³ | Melting point/freezing point | Not Determined | Boiling Point | Not Determined |
| Odor : | Characteristic | Evaporation Rate | Not Determined | Water Solubility Values | Not Determined |
| Dynamic viscosity : | 20 cP | Specific Gravity | Not Determined | Ignition temperature: | Not Determined |
| Flash Point: | > 212°F (100°C) | Auto Ignition | Not Determined | Solvent content: | 0.00% |
| Explosive properties: | Not Determined | Oxidizing properties | Not Determined | | |

X. Stability and reactivity

Reactivity: No further relevant information available.

Chemical Stability:

Thermal decomposition / conditions to avoid: No decomposition if used according to specifications.
 Possibility of hazardous reactions: No dangerous reactions known.
 Conditions to avoid: No further relevant information available.
 Incompatible materials: No further relevant information available.
 Hazardous decomposition products: Carbon monoxide and carbon dioxide

XI. Toxicological Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50/4 h |
|------------------------------|--------------------|-----------------------|---------------------|
| 5888-35-5 Isobornyl Acrylate | ≈ 4350 mg/kg (Rat) | > 5 g/kg (Rabbit) | |
| 2-Hydroxyethyl Methacrylate | ≈ 5050 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | |
| octyl acrylate | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | |
| decyl acrylate | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | |
| 79-10-7 Acrylic Acid | 250 mg/kg (Rat) | 280 mg/kg (Rabbit) | 3.6 mg/l (Rat) |

(see ECHA data)

Primary irritant effect:
 on the skin: Irritant to skin and mucous membranes.
 on the eye: Irritating effect.
 Sensitization: Sensitization possible through skin contact.
 Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.

XII. Ecological Information**Toxicity:**

Aquatic toxicity: No further relevant information available.
 Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.
 Mobility in soil: No further relevant information available.

Ecotoxicological effects:

Remark: Toxic for fish.

Additional ecological information:

General notes: Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

Results of PBT and vPvB assessment:

PBT: Not applicable.
 vPvB: Not applicable.
 Other adverse effects: No further relevant information available.

XIII. Disposal considerations

Waste Disposal Methods: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Contaminated packaging: Dispose of in accordance with local regulation.

XIV. Transportation information**Transportation method:**

DOT
 IATA

UN-Number:

UN3082
 UN3082

Proper shipping name:

Environmentally hazardous substances, liquid, n.o.s. (Acrylic acid, stabilized, Isobornyl acrylate.)
 Environmentally hazardous substances, liquid, n.os. (Acrylic acid, stabilized, Isobornyl acrylate.)

Transportation additional information

DOT

For UN3082 the special provision 49CFR 171.4(c) is valid. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packaging's transported by motor vehicle, rail car or aircraft.

IATA

Effective January 1, 2015, the International Air Transport Association (IATA) and the International Maritime Organization (IMO) provide a new exclusion for certain marine pollutants shipped by air or vessel (per IATA DGR 4.4 SP A197 and IMDG Code 2.10.2.7). Marine pollutants with the shipping names "UN 3077 Environmentally hazardous substance, solid, n.o.s." and "UN 3082 Environmentally hazardous substance, liquid, n.o.s." shipped in quantities of ≤ 5 L or ≤ 5 kg per package are not subject to regulation other than specific packaging provisions.

Packaging Provisions:

Packaging's of good quality and adequate strength.
 Dangerous good contents will not damage any packaging components.
 Packaging's not be overfilled.

XV. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substances or mixture:**

GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms: GHS05, GHS07

Signal Word: Danger.

Hazard-determining components of labeling: acrylic acid, 2-hydroxyethyl methacrylate, Isobornyl acrylate, maleic acid.

Hazard statements: Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation.
 Avoid breathing mist/vapours/spray. Wear protective gloves. Wear eye protection / face protection. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

Precautionary statements:**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

XVI. Other information

DOT: US Department of Transportation
NFPA: National Fire Protection Association (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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