

Material safety data sheet according to (EC) no. 1907/2006

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Version: 1.1

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product Identifier

PROFORMIC R3001

1.2 Relevant identified uses of the substance or mixture and uses, which is discouraged

Relevant identified uses: UV/ Light Cure Adhesive.

Uses, which is discouraged :

1.3 Details of the supplier of the safety data sheet

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC

Classification : Xi; P281,P284
Xn P260,P261

Human Health Hazards : Risk of serious damage to eyes. Irritating to respiratory system and skin. May Cause sensitization by skin contact.

Environment : Aquatic chronic

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms

2.2 Label elements

Supplemental label elements : Not applicable.

Hazard symbol or symbols



Respiratory sensitization



Xn :Harmful

Xi :Irritant



C: Corrosive



N:Marine Pollutant

2.3 Other hazards Other

hazards which do not result in classification

: None known.

3. COMPONENTS/INGREDIENT INFORMATION

3.1 Substances

The main component of the substance

Urethane Methacrylate : Proprietary

3.2 Mixtures

Substance	Identifiers	Wt %	EC. No1272/2008
Urethane Methacrylate	Proprietary	30-60	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Isobornyl Methacrylate	CAS:7534-94-3 EC: 231-403-1	20-30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
N,N-Dimethyl acrylamide	CAS: 2680-03-07 EC: 220-237-5	5-10	Acute Tox. 4, H302 Dam. 3, H311 Eye Irrit. 2, H319 Inha 3, H331
Additive	Proprietary	1-5	Skin irrt-2, H 315 Eye irrt:-2, H 319 Skin Sens-1, H317 Aquatic chronic-2,H411
Methacrylic Acid	CAS: 79-41-4 EC:201-204-4	3-5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335,H336
Photo initiator	Proprietary	1 - 3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Refer to section 16 for full text of H statements.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye : Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

Skin : Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

Inhalation : Remove to fresh air. If symptoms develop and persist, get medical attention

Ingestion : Do not induce vomiting. Keep individual calm. Obtain medical attention.

Comments : None

4.2 Most important acute and delayed symptoms and effects

Eye : Vapors may irritate eyes. Contact with eyes will cause irritation.

Skin : May cause skin irritation. May cause allergic skin reaction.

Inhalation : May cause respiratory tract irritation.

Ingestion : Not expected to be harmful by ingestion.

4.3 Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire-exposed containers

5.2 Special hazards of the substance or mixtures

None known

5.3 Instructions to firefighters

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and procedures to be applied in case of emergency

Remove all sources of ignition. Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or ignition sources at locations distant from the material handling point. Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

6.2 Environmental protection measures

Ventilate area. Prevent product from entering the drains

6.3 Methods and materials for containment and cleaning

Remove mechanically . Dispose of contaminated material as waste according to Section 13

6.4 Reference to other sections

See advice in section 8

7. HANDLING AND STORAGE

7.1 Precaution for safe handling

Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Use reasonable care and store container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep container away from water or moisture. Avoid all possible sources of ignition (spark or flame).

7.3 Specific end use

Uv cure adhesive

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local Ventilation : Recommended

General Ventilation : Recommended

Personal Protective Equipment for Routine Handling

Eyes : Use proper protection - safety glasses with side shields.

Skin : Wash at meal time and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

Suitable Gloves : Use impermeable gloves and protective clothing as necessary to prevent skin

- Inhalation : contact. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.
: Use respiratory protection unless adequate local exhaust ventilation is provided or air-sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.
- Suitable Respirator : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn.

Personal Protective Equipment for Spills

- Eyes : Use - safety glasses with side shields or Chemical Splash goggles.
- Skin : Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.
- Inhalation/Suitable Respirator : Respiratory protection recommended. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a Positive pressure air supplied respirator if there is any potential for uncontrolled release, Exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Precautionary Measures : Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	: Paste
Color	: Red
Odor	: Mild
Specific Gravity @ 25 °C	: 1.03
Viscosity, 25±2 °C, Brookfield, Spindle #6, RPM 20	: 140000±500 cP
Freezing/Melting Point	: ND
Boiling Point	: > 150°C
Vapor Pressure @ 25±2 °C	: ND
Vapor Density	: ND
Solubility in Water	: ND
Volatile Content	: ND

9.2 Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity with UV light

10.2 Chemical Stability

Stable Under recommended storage conditions

10.3 Possibility of hazardous reactions

Will not occur

10.4 Conditions to Avoid

Heat, flames and sparks

10.5 Incompatible Materials

Peroxides, Reducing agents. Strong acids and oxidizing Agents, metals.

10.5 Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous. Carbon oxides and traces of incompletely burned carbon compounds. Nitrogen oxides. Oxides of sulfur. Irritating organic vapors.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Component Toxicology Information

: Acute oral LD50 >10000 mg/kg (rat) (estimated). Acute dermal LD50 >5000mg/kg (rabbit) (estimated).

Hazard Information on Components

Component Name	CAS #	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Urethane methacrylate	Proprietary	No	No	No
Isobornyl Methacrylate	7534-94-3	No	No	No
Additive	Proprietary	No	No	No
Methacrylic Acid	79-41-4	No	No	No
Photoinitiator	Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Ingredients Name	CAS #	Health Effects/Target Organs
Urethane methacrylate	Proprietary	Allergen, Irritant
Isobornyl Methacrylate	7534-94-3	Allergen, Irritant
Additive	Proprietary	Irritant
Methacrylic Acid	79-41-4	Irritant
Photoinitiator	Proprietary	Allergen, Irritant

Sensitizing:

May cause sensitization by inhalation

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution	: Not Available
Environmental Effects	: Not Available
Fate and Effects in Waste Water Treatment Plants	: Not Available
Ecotoxicity	: Not Available
BOD and COD	: Not Available
Products of Biodegradation	: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise
Special Remarks on the Products of Biodegradation	: Not Available

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Methods of disposal Product : The generation of waste should be avoided or minimised wherever possible.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non recyclable products via a licensed waste disposal contractor. Waste should not be

- disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Un-cleaned packaging disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : Must not be disposed together with household garbage. Do not empty into drains.

14. TRANSPORT INFORMATION

- 14.1 UN number**
ADR, ADN, IMDG, IATA : Not Applicable
- 14.2 UN proper shipping name**
ADR, ADN, IMDG, IATA : Not Applicable
- 14.3 Transport hazard class**
ADR, ADN, IMDG, IATA : Not applicable
- 14.4 Packaging Group**
ADR, IMDG, IATA : Not applicable
- 14.5 Environmental Hazards** : Marine pollutant
- 14.6 Special precaution for user**
ADR, IMDG, IATA : Not applicable
- 14.7 Transport in bulk according to annexII if the MARPOL convention73/78 and the IBC code**

DOT Road Shipment Information

- Proper Shipping name : Unrestricted
Hazards Class or division : None
Identification Number : None
Packing : None

Air Shipment (ICAO/IATA)

- Proper Shipping name : Unrestricted
Hazards Class or division : None
Identification Number : None
Packing : None

Ocean Shipment (IMO/ IMDG)

- Proper Shipping name : Unrestricted
Hazards Class or division : None
Identification Number : None
Packing : III

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU Regulation (EC) No. 1907/2006 (REACH) : None of the components are listed.
Annex XIV - List of substances subject to authorization
- Substances of very high concern
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.
- Other EU regulations**
- Europe inventory : Not determined.
Black List Chemicals : Not listed
Integrated pollution prevention and control list (IPPC) - Air : Not listed
Integrated pollution prevention and control list (IPPC) - Water : Not listed
Chemical Weapons Convention List Schedule I Chemicals : Not listed
Chemical Weapons Convention List Schedule II Chemicals : Not listed
Chemical Weapons Convention List Schedule III Chemicals : Not listed

16. OTHER INFORMATION

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315
Skin Sens. 1, H317
STOT SE 3, H335
Aquatic chronic 2, H411

Full text of abbreviated H statements:

H302 Harmful if swallowed.
H311 Toxic in contact with skin
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness
H411 Toxic to aquatic life with long lasting effect

Full text of classifications [CLP/GHS] :

Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4
Acute Tox. 4, H311 ACUTE Dermal: - Category 3
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3
STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effect] - Category 3
Aquatic chronic-2 H411, Toxic to Aquatic life Category-2

Full text of abbreviated R phrases :

P260- Do not breathe dust/fume/gas/mist/vapours/spray
P261- Avoid breathing dust/fume/gas/mist/vapours/spray
P262- Do not get in eyes, on skin or on clothing.
P264- Wash thoroughly after handling.
P281- Use personal protective equipment as required.
P284- Wear respiratory protection..

Full text of classifications [DSD/DPD]

: C - Corrosive
Xn - Harmful
Xi - Irritant
N-Aquatic Chronic

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