

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name : Acrylic Board (COM)

Product code (SDS NO) : BQN-G-41601_US-1

Product class:

The product is an article (acrylic board).

Considering generation of dust/fume in working process, the SDS describes hazards of the product as mixture.

Recommended use of the chemical and restrictions on use

Recommended uses: Various windows, aquariums, furniture, signs, partitions

Restrictions on uses: No restrictions

Details of the supplier of the safety data sheet

Manufacturer/Supplier : Mitsubishi Electric Corporation

Address : 5-1-14, Yada-minami, Higashi-ku, Nagoya-shi, Aichi 461-8670, Japan

Division : Laser Systems Dept.

Telephone number : +81-52-721-2111

FAX : +81-52-721-1941

Section 2. Hazards identification

Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

HEALTH HAZARDS

Skin sensitization: Category 1

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictograms:



Signal word: Warning

HAZARD STATEMENT

May cause an allergic skin reaction

PRECAUTIONARY STATEMENT

Prevention

Avoid breathing dust/fume.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

Response

Specific treatment.

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified

None known.

Section 3. Composition/information on ingredientsSubstance/mixture:

Mixture

Ingredient name	CAS No.	Content (%)
Poly(methyl methacrylate)	9011-87-4	>=99
Methyl methacrylate	80-62-6	0.1 - 1

Note : The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

Section 4. First-aid measuresDescriptions of first-aid measures

IF INHALED (dust/fume generated in working process)

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Give artificial respiration if victim is not breathing.

Get immediate medical advice/attention.

IF ON SKIN

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Rinse in order to better reach all parts of eyes.

Immediately call a POISON CENTER/doctor.

IF SWALLOWED

Rinse mouth.

Do not give an unconscious person anything to drink.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

Indication of any immediate medical attention and special treatment needed

Specific treatment.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder, CO2, dry sand to extinguish.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Fires involving this material produce large amounts of sooty smoke.

Will form toxic carbon oxides, Methyl methacrylate upon combustion.

Advice for firefighters

Special extinguishing method

Evacuate non-essential personnel to safe area.

Cool container with water spray.

Apply water from a safe distance to cool and protect surrounding area.

Prevent extinguishing water from entering sewers.

Move containers from fire area if this can be done without risk.

Extinguish from the windward to the extent possible.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

(If released dust/fume generated in working process)

Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Stand at upwind. Evacuate personnel at downwind.

Stop leak if safe to do so.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

Avoid raising dust.

Methods and materials for containment and cleaning up

Use clean non-sparking tools to collect absorbed material.

Sweep up, place in a bag and hold for waste disposal.

Vacuum up using a vacuum cleaner and collect it in a container.

Fill the disposal into labelled, closable containers.

Section 7. Handling and storage

Precautions for safe handling

Engineering measures

(Measures to prevent operator exposure)

Avoid breathing dust/fume generated in working process.

(Measures to prevent fire and explosion)

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

Take action to prevent static discharges.

(Local ventilation/general ventilation)

Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

(Precautions)

Avoid contact the dust/fume which generated working process with skin.

Avoid contact the dust/fume which generated working process with eyes.

Prevent deposition of dust generated in working process.

Advice on safe handling

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Use personal protective equipment as required.

Avoidance of contact

Strong oxidizing agents should not be mixed with the chemicals.

Advice on general occupational hygiene

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash it before reuse.

Do not get in eyes, on skin, or on clothing to dust/fume generated in the work process.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage

Store in a well-ventilated place.

Keep container tightly closed.

Keep cool.

(Incompatible storage condition)

Protect from sunlight.

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Keep away from water.

Protect from moisture.

Container and packaging materials for safe handling data is not available.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values

ACGIH

(Methyl methacrylate)

TWA: 50ppm; STEL: 100ppm (URT & eye irr; body weight eff; pulm edema)

Notation

(Methyl methacrylate)

DSEN

OSHA-PEL

(Methyl methacrylate)

TWA: 100ppm, 410mg/m³

NIOSH-REL

(Methyl methacrylate)

TWA: 100ppm

Appropriate engineering controls

Use in a location equipped with a general ventilation system or local exhaust ventilation system.

Provide the safety shower facility, and hand/eye wash facility. And display their position clearly.

Individual protection measures, such as personal protective equipment

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Chemical protective gloves Recommended material(s): impermeable or chemical resistant rubber

Eye/face protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear anti-static protective clothing and shoes.

Section 9. Physical and Chemical Properties

Physical state: Solid (Board)

Color: Clear or colored

Odor: None

Odor threshold data is not available.

Melting point/Freezing point: Appox.100°C(Softening point)

Boiling point, initial boiling point, or boiling range data is not available.

Flammability: Combustible

Lower and upper explosion limit/flammability limit data is not available.

Flash point: 280 - 300°C

Auto-ignition temperature: 450 - 462°C

Decomposition temperature: 220 - 300°C

pH: Not applicable

Kinematic viscosity: Not applicable

Solubility:

Solubility in water: Insoluble

Solubility in solvent: Soluble in acetone and ethyl acetate

Partition coefficient n-octanol/water data is not available.

Vapor pressure data is not available.

Density and/or relative density: 1.17 - 1.20g/cm³

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

Evaporation rate data is not available.

Section 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

Conditions to avoid

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Keep away from water.

Protect from moisture.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

The following substances are produced by pyrolysis.

Carbon oxides, Methyl methacrylate

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methyl methacrylate)

Category 2

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Respiratory or skin sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Category 1, May cause an allergic skin reaction

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methyl methacrylate)

Category 1

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[IARC]

(Methyl methacrylate)

Group 3 : Not classifiable as to its carcinogenicity to humans

[ACGIH]

(Methyl methacrylate)

A4: Not Classifiable as a Human Carcinogen

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity - single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methyl methacrylate)

Category 3 (Respiratory tract irritation)

Specific target organ toxicity - repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Section 12. Ecological Information

Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Water solubility

(Methyl methacrylate)

1.6 g/100 mL (20°C) (source: ICSC, 2003)

Persistence and degradability

[Data for components of the product]

(Methyl methacrylate)

Rapidly degradable (Degradation rate: 94.3% (by BOD)) (source: NITE)

Bioaccumulative potential

[Data for components of the product]

(Methyl methacrylate)

log Kow: 1.38(20°C) (source: NITE)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Waste treatment methods

Waste from residues

Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UNRTDG

UN number : Not regulated

UN Proper Shipping Name : Not regulated

Transport hazard class(es) : Not regulated

Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

UN number : Not regulated

UN Proper Shipping Name : Not regulated

Transport hazard class(es) : Not regulated

Packing group : Not regulated

IATA (Dangerous Goods Regulations)

UN number : Not regulated

UN Proper Shipping Name : Not regulated

Transport hazard class(es) : Not regulated

Packing group : Not regulated

Environmental hazards

Marine pollutants (yes/no) : no

Environmentally hazardous substance/mixture (yes/no) : no

Special precautions for user

Protect from direct sunlight or rain.

Beware of tumbling, load collapsing, falling.

Maritime transport in bulk according to IMO instruments

MARPOL Annex II - Noxious Liquid Substances

Noxious Liquid Substances ; Cat. Y

Methyl methacrylate

MARPOL Annex V - HME (Harmful to the Marine Environment)

Synthetic polymers (includes materials that are shredded, milled, chopped or macerated or similar materials)

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Methyl methacrylate; Poly(methyl methacrylate)

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Section 16. Other information

GHS classification and labelling

Skin sensitization, Category 1: H317 May cause an allergic skin reaction

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN

IMDG Code, 2024 Edition (Incorporating Amendment 42-24)

IATA Dangerous Goods Regulations (67th Edition) 2026

2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2026 TLVs and BEIs. (ACGIH)

Supplier's data/information

OSHA Hazard Communication Standard - 2024 (29 CFR 1910.1200)

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 01/09/2025 and Commission delegated regulation (EU) 2024/2564 (ATP22)).