

# MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product name :** ACREX PMMA sheet

**Recommended use of the chemical and restrictions on use**

Recommended use : Lighting equipment, Soundproof the walls, electric and electronic parts,  
Light guide plate, etc.

Restrictions on use : No data available

**Manufacturer or supplier's details**

Company : Plastech Co.,Ltd

Address : 122-66, Sangdong-ro, Sangdong-myeon, Gimhae-si,  
Gyeongsangnam-do, KOREA

Contact Tel. : 82- 55-329-6900

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## 2. HAZARDS IDENTIFICATION

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**GHS Classification**

Physical hazards : Not Classified.

Health hazards : Not Classified.

Environmental hazards : Not Classified.

**Warning Levels, Pictograms, Hazard Statement and Preventive Measure Statements**

Pictograms : Not applicable.

Signal word : Not applicable.

Hazard statements : Not applicable.

**PRECAUTIONARY STATEMENTS**

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

#### Other hazards which do not result in classification

Molten PMMA may cause thermal burns.

Irritating fumes may produce at process temperatures.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Another Name	CAS-No.	Concentration (%)
Poly Methyl Methacrylate	Acryl sheet	9011-14-7	Min 99.5%

### 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Eyes contact : Immediately bathe eyes with cold water for at least 20 min.

If eye irritation persists, consult a specialist.

Skin contact : Contact with the hot melt. Wash with a lot of water as quickly as possible.

To obtain treatment for possible burns, and appropriate skin care, seek medical advice immediately.

Inhalation : Immediately get fresh air and medical attention.

Ingestion : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing

Avoid inhalation, ingestion and contact with skin and eyes.

Notes to physician : If molten PMMA is in contact with skin, treat as any thermal burn.

Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

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## 5. FIRE-FIGHTING MEASURES

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### **Suitable and unsuitable extinguishing media:**

Suitable extinguishing media : Alcohol-resistant foam , Carbon dioxide (CO<sub>2</sub>), Dry chemical

Unsuitable extinguishing media : High volume water jet

### **Specific hazards during firefighting:**

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous decomposition products due to incomplete combustion.

Hazardous combustion products

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Specific extinguishing methods

: Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored separately in closed containments.

Use a water spray to cool fully closed containers.

### **Special protective equipment for firefighters:**

: Wear self-contained breathing apparatus for firefighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **Personal precautions, protective equipment and emergency procedures**

The product may cause slippery floor conditions. Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so.

Ventilate spill area if possible. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

### **Environment related measures**

Prevent material from entering sewers or waterways. Notify appropriate government, occupational health and safety and environmental authorities.

### **Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material and place in container for disposal according to local / national regulations (see section 13).

### **Reference to other sections**

For further disposal measures see section 13.

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## 7. HANDLING AND STORAGE

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Advice on safe handling : Do not make contact with molten polymer.

Immediately remove spilled products from the floor to avoid injury.

Conditions for safe Storage : Store away from heat and sources of ignition.

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

Store separately from incompatibles.

Materials to avoid : Store away from heat and sources of ignition.

Recommended storage temperature : Room temperature 23°C

Storage period : No data available

Dangerous reaction : Not expected, but prevent the material from contacting with oxidizing agents.

Packaging material : No data available

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Components with workplace control parameters

Exposure standards for chemicals, biological exposure standards, etc.

Contains no substances with occupational exposure limit values.

**Engineering controls** : Safety shower and eye bath. Mechanical exhaust required.

### Individual protection measures

General advice : The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled.

Respiratory protection : Not required for properly ventilated areas. If significant mists, vapors or aerosols are generated an approved respirator is recommended.

A suitable filter material depends on the amount and type of chemicals being handled.

Hand protection : Wear general gloves. Where contact may occur with hot material, wear thermal resistant gloves.

Skin protection : No special protection required. Wear standard protective clothing.

Eye protection : Wear safety glasses or goggles under normal conditions. Keep an eye wash fountain available.

**Hygiene measures** : When using do not eat or drink.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical Form : Plastic Sheet

Odor: odorless

pH : Not applicable

Melting / Freezing Point : 165°C

Initial boiling point / Boiling point range : 200°C

Flash point : > 280°C

Upper/lower flammability or explosive limits : Not applicable

Vapour pressure : Not applicable

Flammability : Combustible.

Density : 1.19 g/cm<sup>3</sup>

Water solubility : Practically insoluble

Autoignition temperature : Not applicable

Ignition temperature : > 450 °C

Decomposition temperature : >= 380 °C

Viscosity : not applicable

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## 10. STABILITY AND REACTIVITY

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### **Chemical stability and possibility of hazardous reactions :**

Stable under normal conditions. Do not heat above 280°C.

Fumes evolved by overheating during improperly processing or by burning may be injurious to health. Possibility of hazardous reactions: No hazardous reactions observed.

### **Conditions to avoid :**

Open flame and ignition sources.

### **Material to avoid :**

Contact with acids, alkalies and strong oxidizing agents.

### **Hazardous decomposition products :**

Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO<sub>2</sub> may be developed.

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## 11. TOXICOLOGICAL INFORMATION

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### Information on the likely routes of exposure

Eye contact : No data available.

Skin contact : No data available.

Ingestion : No data available.

Inhalation : No data available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity :

Oral : LD50 > 15000 mg/kg Mouse (Corporate Solution From Thomson Micromedex)

Skin : No data available.

Inhalation : No data available.

Skin corrosion/Irritation :

No toxic symptoms reported. Monomer vapors from heated PMMA may cause irritation.

Serious eye damage/ Irritation :

No toxic symptoms reported. Monomer vapors from heated PMMA may cause irritation.

Respiratory or skin sensitization :

No data available. However, based on our hazard characterization, the product is not expected to cause respiratory or skin sensitization due to low contents of the MMA (0.03%).

Germ cell mutagenicity :

Not expected to cause mutagenicity based on its monomer and PMMA structure.

Carcinogenicity :

IARC : No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

IARC : 3 - Group 3: Not classifiable as to its carcinogenicity to humans.

ACGIH : No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP : No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA : No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity/Fertility : No data available.

Reproductive toxicity/Teratogenicity : No data available.

Genotoxicity in vitro : No data available.

Genotoxicity in vivo : No data available.

STOT evaluation – one-time exposure : No data available.

STOT evaluation – repeated exposure : No data available.

Aspiration toxicity : No data available.

Additional information : According to our experience and information the product has no harmful effects on health if properly handled.

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## 12. ECOLOGICAL INFORMATION

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Ecotoxicity : No data available.

Persistence and degradability : No data available.

Bioaccumulative potential : No data available.

Mobility in soil : No data available.

Other adverse effects : The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. The product is not readily biodegradable.

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## 13. DISPOSAL CONSIDERATIONS

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### Disposal methods :

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations.

### Disposal precautions :

Empty containers should be collected at an approved waste disposal site for recycling or disposal. Landfill or recycle.

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

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## 14. TRANSPORT INFORMATION

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### International Regulations

UNRTDG : Not regulated as a dangerous good

IATA-DGR : Not regulated as a dangerous good

IMDG-code : Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable.

### **National Regulations**

Refer to section 15 for specific national regulation.

### **Special precautions for user**

Not dangerous cargo. Keep dry.

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## **15. REGULATORY INFORMATION**

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### **National regulatory information**

#### **Regulation under the Occupational Safety and Health Act**

Harmful Substances Prohibited from Manufacturing : Not applicable

Harmful Substances Required Permission for Manufacture : Not applicable

Hazardous substances requiring management : Not applicable

Special Management : Not applicable

Controlled Substances Subject to Environment Monitoring : Not applicable

Controlled Substances Subject to Health Examination : Not applicable

#### **Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act**

Toxic Chemicals : Not applicable

Restricted Chemicals : Not applicable

Prohibited Chemicals : Not applicable

Toxic Release Inventory : Not applicable

Accident Precaution Chemicals : Not applicable

#### **Dangerous Substances Safety Management Act**

Not Applicable to Dangerous Materials

#### **Wastes Control Act**

Industrial waste. Follow article 13 of the act to dispose the product waste

#### **Other requirements in domestic and other countries**

OSHA Hazards : No known hazards

SARA 302 Components : No chemical in this material are subject to reporting requirements of SARA Title III, Section 302.

SARA 311/312 Components : No SARA Hazards

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.



Right To Know Components :

Masachusetts : No components of the material are subject to Massachusetts Right to Know Act.

New York : No components of the material are subject to Massachusetts Right to Know Act.

New Jersey : No components of the material are subject to New Jersey Right to Know Act.

Pennsylvania : No components of the material are subject to Pennsylvania Right to Know Act.

California Prop 65 : No components found

Canada Inventory : This Material is listed or exempted.

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## 16 . OTHER INFORMATION

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Date of issue : August 24. 2020

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.