



ARKANA[®] Acrylic Sheet

1. Supplier

Arkana Technology Limited
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Product Use: building glazing, light advertising, furniture, trade-fair booth design, displays, decoration, Industrial Use

2. Composition/Information on Ingredients

This material is classified as not hazardous under OSHA regulations.

| <u>Ingredients</u> | <u>CAS Reg. No.</u> | <u>Weight %</u> |
|--------------------|---------------------|-----------------|
| acrylic copolymer | trade secret | 100 |

3. Hazards Identification

Emergency Overview

Color: colorless or colored
Appearance: solid in various forms
Odor: odorless

Under normal conditions of use, this product is not expected to create any unusual industrial hazards.

Primary Routes of Exposure

Eye contact (if exposed to chips)

Potential Health Effects

Inhalation

No hazard expected in normal use.

Eye Contact

No hazard expected in normal use.

Material can cause the following:

- mechanical irritation

**Skin Contact**

Material can cause the following:
- cuts (when using cut sheets)

Ingestion

No hazard expected in normal use.

Potential Environmental Effects

See SECTION 12, Ecological Information

4. First Aid Measures**First Aid Procedures****Inhalation**

No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

Eye Contact

If mechanical irritation occurs flush eyes thoroughly with a large amount of water, consult a physician if irritation persists. (possible during machining processes)

Skin Contact

No specific treatment is necessary since this material is not likely to be hazardous.

Ingestion

Ingestion is not considered a potential route of exposure.

5. Fire-Fighting Measures

Flash point > 250 °C (ASTM D1929-68)
> 482 ° F (AS TM D1929-68)

Autoignition Temperature > 400 °C (ASTM D1929-68)
> 752 ° F (AS TM D1929-68)

Lower explosion limit not applicable

Upper explosion limit not applicable

OSHA Flammability Classification none

Other Flammable Properties

Use water spray to cool containers exposed to fire.

Extinguishing Media

Use the following extinguishing media when fighting fires involving this material:
water spray - foam - dry chemical - carbon dioxide

Fire Fighting Procedures

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

6. Accidental Release Measures

Procedures

Collect material and place in a disposal container. Obey relevant local, state, provincial and federal laws and regulations.

7. Handling and Storage

Handling

During thermal processing and or machining local exhaust ventilation at processing machines is necessary.

Storage

Storage: dry.

8. Exposure Controls/Personal Protection

Exposure Limit Information

ACRYLIC COPOLYMER

trade secret

No Occupational Exposure Values established.

Engineering Controls (Ventilation)

If use operations generate dust, use adequate ventilation.

Respiratory Protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye Protection

goggles for machining operations

Hand Protection

protective gloves against mechanical risks

Other Protective Equipment

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. Physical and Chemical Properties

| | |
|-----------------------|--|
| Appearance | colorless or colored |
| Physical state | solid in various forms |
| Odor | odorless |
| Flash point | > 250 °C (ASTM D1929-68) > 482 °F (ASTM D1929-68) |
| pH-value | not applicable |

| | |
|--|-------------------------|
| Vaporpressure | not applicable |
| Softening Temperature | approx. 102 °C / 216 °F |
| Boiling Temperature | not applicable |
| Solubility in water | insoluble |
| n-Octanol/water partition coefficient | not applicable |
| Evaporation rate | not applicable |
| Odor threshold | not available |
| Further information | none |

10. Stability and Reactivity

Stability

This product is stable under normal storage conditions.

Conditions To Avoid

This material is considered stable.

Incompatibility With Other Materials

Oxidizing agents. No known incompatibility with other materials.

Hazardous Decomposition Products

In case of thermal decomposition, combustible vapours are formed, which are irritating to eyes and respiratory system, mainly consisting of: methyl methacrylate

Hazardous Polymerization

Product will not undergo polymerization.

11. Toxicological Information

Further Information on Toxicology

The product has not been tested toxicologically. When handled and used as directed the product will not cause hazardous effects to health according to studies on similar products and practical experience.

12. Ecological Information

Information on Elimination (Persistence and Degradability)

Ecotoxicological Effect

Further Information on Ecology

The product has not been tested ecotoxicologically.

On the basis of the products consistency as well as its low water solubility a bio availability is unlikely. Studies on products with similar composition confirm this assumption.

13. Disposal Considerations

Procedures

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

14. Transport Information

Further information

Not subject to the regulations on dangerous goods.

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