

ACRYSTAR Material Safety Data Sheet



General Information

Trade Name : ANI - Cast Acrylic Sheet
Chemical Name : Acrylic Polymer based on Methyl Methacrylate
Company's Name : A & C Plastics, Inc.
Telephone Number for Information : 1-800-231-4175
Date MSDS Prepared : July 2002
MSDS Review Date : March 2007

Hazardous Ingredients /Identify Information

Hazardous Components	OSHA PEL	ACGIN TLV	Other Limits	%
None				

Physical / Chemical Characteristics

Boiling Point : Not applicable.
Vapor Pressure (mm Hg) : Not applicable.
Vapor Density (Air = 1) : Not applicable.
Specific Gravity (Water = 1) : 1.1888
Melting Point : About 115 C (Softening).
Thermoforming Temperature : About 140° C - 180° C (Higher temperature can speed up thermoforming process with higher risk of overheated surface).
Evaporation Rate (Butyl Acetate = 1) : Not applicable.
Solubility in Water : Insoluble.
Appearance : Clear colorless sheets.
Odor : Odorless.

Fire and Explosion Hazard Data

Flash Point (Method Used) : Above 250° C.
Flammability Limits : Not applicable.
Extinguishing Media : Waterspray, foam, dry chemical, carbon dioxide.
Special Fire Fighting Procedures : No special procedure needed.
Unusual Fire and Explosion Hazards : None.

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Reactivity Data

Stability	: Stable.
Condition / Materials to Avoid	: Heating at temperatures above 250° C.
Incompatibility (Materials to Avoid)	: None known.
Hazardous Decomposition or By Products	: On thermal treatment irritating acrylic monomers may be formed.
Hazardous Polymerization	: Will not Occur.
Condition to Avoid	: None known.

Health Hazard Data

Route of Entry

Inhalation	: Only in case of dust formation when machining product.
Skin	: No route.
Ingestion	: None on normal use.

Health Hazards (Acute and Chronic)

: Product is essentially nontoxic.
There is only a slight mechanical irritating effect of fine articles to be expected, when machining product.

Carcinogenicity

NTP	: Not listed.
IARC Monograph	: Not listed.
OSHA Regulated	: Not listed.

Signs and Symptoms of Exposure

Eyes	: Possible slight mechanical irritation by fine particles when machining product.
Skin	: No effects.
Inhalation	: Possible slight mechanical irritation by fine particles when machining product.
Ingestion	: No effects to be expected.
Medical Conditions Generally Aggravated by Exposure	: None known.

Emergency and First Aid Procedures

Eyes	: In case of irritation from fine particles when machining : Flush eyes with eyelids retracted with plenty of water for at least 15 Minutes. In case of prolonged irritation consult an ophthalmologist.
Skin	: None.
Inhalation	: In case of prolonged irritation from fine particles when machining product consult a physician.
Ingestion	: None necessary on normal handling. In case of ingestion of larger quantities of dust and/or particles consult a physician.



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Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled	: Take up mechanically and dispose of as prescribed.
Waste Disposal Method	: Product may be disposed of according to federal, state, and local regulations in an approved incineration unit or an approved landfill.
Precautions to be Taken in Handling and Storing	: Keep away from sources of ignition. Protect from exposure to fire and heat. In case of machining product take precautions necessary for safe use of tools and/or equipment.
Other Precautions	: None necessary.

Control Measures

Respiratory Protection	: In case of dust formation when machining wear dust mask.
Ventilation	
Local Exhaust	: Should be used when machining.
Mechanical (General)	: May be used when machining.
Special	: Not necessary.
Others	: Not necessary.
Protection Gloves	: Safety precautions necessary when machining.
Eye Protection	: Goggles when machining.
Other Protective Clothing or Equipment	: No special protective clothing necessary.
Work / Hygienic Practice	: Follow the standards of good industrial hygiene practices.

This information has been compiled from sources considered to be dependable and is, to the best of our knowledge, accurate and reliable as to the data compiled.

However, no guarantee or warranty is made as to its accuracy, reliability and/or completeness. It is the user's responsibility to satisfy him as to the fitness or suitability of the product for the intended particular purpose or use. All risks of the use of the product are therefore assumed by the user. Appropriate warnings and safe handling procedures should be provided to handlers and users.