

Material Safety Data Sheet

Status: 08/30/2006

Version: 1.

ACRYLITE® Resist SG

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1. Chemical Product and Company Identification

ACRYLITE® Resist SG

Synonyms: Acrylic polymer

Supplier:

RÖHM AMERICA / CYRO INDUSTRIES

379 Interpace Parkway
Parsippany, NJ 07054-0677

Product Information Number 1-207-490-4242
24 Hour Emergency Number, CHEMTREC 1-800-424-9300

® is a registered trademark

Product Use: acrylic glass

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 |

NJTSR # 56705700001-6767P

See Section 8, Exposure Controls/Personal Protection

3. Hazards Identification

Emergency Overview

Color: various, depending on coloration
Appearance: sheets
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)

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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 not applicable

Autoignition Temperature > 399 °C
> 750 °F

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.

See Material Safety Data Sheet section 8, Exposure Controls/Personal Protection.

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 (ACGIH, OSHA, Canada and Mexico).

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 | various, depending on coloration |
| Physical state | sheets |
| Odor | odorless |
| Flash point | not applicable |

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| | |
|--|-------------------------------|
| pH-value | not applicable |
| Viscosity (dynamic) | not applicable |
| Specific gravity (water = 1) | 1.15 - 1.17 g/cm ³ |
| Vapor density (air = 1) | not applicable |
| Vapor pressure | not applicable |
| Softening Temperature | not available |
| 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 |

See Section 5, Fire Fighting Measures

10. Stability and Reactivity

Stability

This product is stable under normal storage conditions.

Conditions To Avoid

Decomposition begins above 250°C / 482 °F.

Incompatibility With Other Materials

Oxidizing agents. No known incompatibility with other materials.

Hazardous Decomposition Products

In case of thermal decomposition combustible, the eyes and respiratory system irritating vapors are formed, consisting mainly 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 eco toxicologically.

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.

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13. Disposal Considerations

Procedures

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. CYRO encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.

14. Transport Information

Further information

Not subject to the regulations on dangerous goods.

15. Regulatory Information

INVENTORY INFORMATION

| | |
|-------------|--------------------|
| EINECS (EU) | listed or exempted |
| TSCA (USA) | listed or exempted |
| DSL (CDN) | listed or exempted |

US FEDERAL REGULATORY INFORMATION

| Component / CASRN | TPQ [lbs] | CERCLA/RQ [lbs] (40CFR302.4) | SARA 302 List of EHS | SARA 313 (40CFR372) | TSCA 12b |
|-------------------|-----------|---------------------------------|-------------------------|------------------------|----------|
| NONE | | | | | |

COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

| Component / CASRN | Weight % | HAP | EHAP |
|-------------------|----------|-----|------|
| NONE | | | |

PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

NONE

US STATE REGULATORY INFORMATION

| Component / CASRN | New Jersey RTK | Pennsylvania RTK | Massachusetts RTK | California Proposition 65 Cancer | California Proposition 65 Reproductive |
|-------------------------------------|-------------------|---------------------|----------------------|--|--|
| acrylic copolymer / trade secret | NO | NO | NO | NO | NO |

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CANADIAN REGULATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulations.

This is a non-controlled product.

WHMIS: NO

Component / CASRN

NPRI

NONE

16. Other Information

| | Health | Flammability | Physical Hazard |
|--------------|--------|--------------|-----------------|
| HMIS-Ratings | 1 | 1 | 0 |
| NFPA-Ratings | 1 | 1 | 0 |

HMIS Hazard Ratings

4 = severe
3 = serious
2 = moderate
1 = slight
0 = minimal
N = no rating for powders
* = chronic health hazard

NFPA Hazard Ratings

4 = extreme
3 = high
2 = moderate
1 = slight
0 = insignificant
N = no rating for powders

This MSDS was prepared in accordance with ANSI Z400.1-1998.

Places marked by || have been amended from the last version.

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