1. **Product and Company Identification**

1.1. **Product identifier**

**Trade name:** ACRYLITE® - Sheets/Rods/Tubes

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

Recommended use(s): building glazing, light advertising, furniture, trade-fair booth design, displays, decoration. Industrial use.

Non-recommended use(s): None known.

1.3. **Details of the supplier of the safety data sheet**

Evonik CYRO LLC
299 Jefferson Road
Parsippany, NJ 07054-0677
USA

973-929-8000
973-929-8040 (fax)

1-973-929-8060 (Product Information Number)
1-800-424-9300 (24 Hour Emergency Number, CHEMTREC)

2. **Hazards identification**

2.1. **Classification of the substance or mixture**

This article is not classified according to GHS.

**Classification according to Regulation 29CFR 1910.1200**

This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS).

2.2. **Label elements**

This article is not classified according to GHS

2.3. **Other hazards**

None known

3. **Composition/information on ingredients**

3.1. **Substances**

---

3.2. **Mixtures**

**Hazardous Ingredients**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Hazard class / Hazard category / Hazard statement</th>
</tr>
</thead>
</table>

4. First-aid measures

4.1. Description of first aid measures

General advice    No special measures are required.
Inhalation        No specific treatment is necessary since this material is not likely to be hazardous by inhalation.
Skin contact      No specific treatment is necessary since this material is not likely to be hazardous.
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)
Ingestion         Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects, both acute and delayed

None known

4.3. Indication of any immediate medical attention and special treatment needed

no

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media    water spray, foam, dry chemical, carbon dioxide
Unsuitable extinguishing media  full water jet

5.2. Specific hazards arising from the chemical

In case of fire partly flammable, partly harmful vapours, which are irritating to the eyes and respiratory system, may be formed on thermal decomposition.

5.3. Special protective equipment and precautions for fire-fighters

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

Use water spray to cool containers exposed to fire.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protectors.

6.2. Environmental precautions
Should not be released into the environment. Collect and dispose of unused residues.

6.3. Methods and materials for containment and cleaning up

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

6.4. Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1. Precautions for safe handling

Safe handling advice
Avoid dust formation. During thermoplastic processing, vapours of the decomposition products referred to in section 10 are given off, which are technically unavoidable (Observe exposure threshold limit values). During thermal processing and/or machining local exhaust ventilation at processing machines is necessary.

Advice on protection against fire and explosion
Take precautionary measures against static discharges. In the event of fire, cool the endangered product with water.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers
Storage: dry.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Information

<table>
<thead>
<tr>
<th>ACRYLIC COPOLYMER</th>
<th>trade secret</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Occupational Exposure Values</th>
<th>Remark(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV-TWA</td>
<td>not established</td>
</tr>
<tr>
<td>ACGIH TLV-STEL</td>
<td>not established</td>
</tr>
<tr>
<td>OSHA PEL-TWA</td>
<td>not established</td>
</tr>
<tr>
<td>OSHA PEL-STEL</td>
<td>not established</td>
</tr>
<tr>
<td>NIOSH REL-TWA</td>
<td>not established</td>
</tr>
<tr>
<td>NIOSH REL-STEL</td>
<td>not established</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering controls
If use operations generate dust, use adequate ventilation.

8.3. Personal protective equipment
Protective measures

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.

Hygiene measures

Follow the usual good standards of occupational hygiene.

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.

Hand protection

Protective gloves against mechanical risks according to EN 388

General information

For each workplace a suitable glove type has to be selected.

Eye protection

Goggles for machining operations

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Transparent</td>
</tr>
<tr>
<td>Form</td>
<td>Sheets</td>
</tr>
<tr>
<td>Odor</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Softening Temperature</td>
</tr>
<tr>
<td></td>
<td>Ca. 100 °C</td>
</tr>
<tr>
<td></td>
<td>Ca. 210 °F</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 250 °C (ASTM D 1929-68)</td>
</tr>
<tr>
<td></td>
<td>&gt; 480 °F (ASTM D 1929-68)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>&gt; 400 °C</td>
</tr>
<tr>
<td></td>
<td>&gt; 750 °F</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>This material is considered stable under specified conditions of storage, shipment and/or use.</td>
</tr>
<tr>
<td></td>
<td>Depolymerization begins at 250 °C / 482 °F.</td>
</tr>
<tr>
<td>Impact Sensitivity</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Lower explosion limit       not applicable
Upper explosion limit       not applicable
Flammability (solid, gas)   no data available

Vapour pressure             not applicable
Density                     ca. 1.20 g/cm³ at  20 °C / 68 °F
Relative density            no data available

Bulk density                no data available
Relative vapour density     not applicable
(related to air)

Solubility in water         insoluble
Solubility (quantitative)   no data available
Solubility (qualitative)    in e.g. esters, ketones and chlorinated hydrocarbons: readily soluble
pH                          not applicable

n-Octanol/water partition   not applicable
coefficient

Viscosity (dynamic)         not applicable
Viscosity (kinematic)       not applicable

9.2. Other information
none
10. Stability and reactivity

10.1. Reactivity

see section 10.2.

10.2. Chemical stability

This material is considered stable under specified conditions of storage, shipment and/or use. Depolymerization begins at 250 °C / 482 °F.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

None reasonably foreseeable.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

toxicokinetics, metabolism and distribution

The substance is practically not bioavailable (structure-activity-relationships) (analogy)

Acute Oral Toxicity

no specific test data available
no evidence for hazardous properties (structure-activity-relationships) (analogy)

Caustic burning / irritation of skin

no specific test data available
no evidence for hazardous properties (structure-activity-relationships) (analogy)

Serious eye damage/eye irritation

no specific test data available
no evidence for hazardous properties (structure-activity-relationships) (analogy)

Respiratory/skin sensitization
Aspiration hazard

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

Mutagenicity assessment

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

Carcinogenicity

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

Reprotoxicity / teratogenicity

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

CMR assessment

CMR: no
no specific test data available
(structure-activity-relationships)
(analogy)

Specific Target Organ Toxicity - Single exposure

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

Specific Target Organ Toxicity - Repeated exposure

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

General information

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.
The fine particles contained in the product may cause mechanical irritations of the skin, eyes and mucous membranes.
Avoid skin and eye contact and inhalation of product dust/aerosols.
12. Ecological information

12.1. Toxicity

Hazardous to the aquatic environment

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

12.2. Persistence and degradability

Persistence and degradability

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

12.3. Bioaccumulative potential

Bioaccumulation

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

12.4. Mobility in soil

Mobility

no specific test data available
no evidence for hazardous properties
(structure-activity-relationships)
(analogy)

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

PBT: no
vPvB: no

12.6. Other adverse effects

General Information

The product has not been tested ecotoxicologically. On the basis of the products consistency as well as its low water solubility a bioavailability is unlikely. Studies on products with similar composition confirm this assumption. Prevent substance from entering soil, natural bodies of water and sewer systems.

13. Disposal considerations

13.1. Waste treatment methods

Product

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.

Uncleaned packaging

Uncontaminated packaging may be taken for recycling.
14. Transport information

US DOT Hazard Classification
Not subject to the regulations on dangerous goods.

Canadian TDG Classification
Not subject to the regulations on dangerous goods.

Shipment by sea IMDG/GGVSee
Not dangerous according to transport regulations.

Air transport ICAO/IATA
Not dangerous according to transport regulations.

15. Regulatory information

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

INVENTORY INFORMATION

REACH (EU) prereregistered, registered or exempted
TSCA (USA) listed or exempted
DSL (CDN) listed or exempted
AICS (AUS) listed or exempted
METI (J) listed or exempted
ECL (KOR) listed or exempted
PICCS (RP) listed or exempted
IECSC (CN) listed or exempted
HSNO (NZ) listed or exempted
ECS (Taiwan) listed or exempted

US FEDERAL REGULATORY INFORMATION

Component / CASRN TPQ CERCLA RQ [lbs] 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
This product contains (a) chemical(s) known to the State of California to cause cancer.

**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

<table>
<thead>
<tr>
<th>Component / CASRN</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
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</table>

### 16. Other information

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS-Ratings</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>NFPA-Ratings</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**HMIS Hazard Ratings**

<table>
<thead>
<tr>
<th>HMIS Hazard Ratings</th>
<th>NFPA Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 = severe</td>
<td>4 = extreme</td>
</tr>
<tr>
<td>3 = serious</td>
<td>3 = high</td>
</tr>
<tr>
<td>2 = moderate</td>
<td>2 = moderate</td>
</tr>
<tr>
<td>1 = slight</td>
<td>1 = slight</td>
</tr>
<tr>
<td>0 = minimal</td>
<td>0 = insignificant</td>
</tr>
<tr>
<td>N = no rating for powders</td>
<td>N = no rating for powders</td>
</tr>
</tbody>
</table>

* = chronic health hazard

**Other information**

- none

**References**

- relevant manuals and publications
- own examinations
- own toxicological and ecotoxicological studies
- toxicological and ecotoxicological studies of other manufacturers
- SIAR
- OECD-SIDS
- RTK public files

**Revision Date**

06/23/2015
Places marked by || have been amended from the last version.

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Date of printing: 09/01/2017