

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: ACRYLITE® Resist
zk5BR 04350 white

Chemical name: acrylic polymer

Other means of identification None.

Recommended use: moulding mixture

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

CompanyName : Roehm America LLC
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Parsippany, NJ 07054
USA

Telephone : +1 800-225-0172

E-mail : product-regulatory-services@roehm.com

Emergency telephone number:
24-Hour Health Emergency : +1 800 424 9300 (CHEMTREC - US & CANADA)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification
Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Chemical name:

acrylic polymer

Mixtures

Composition Comments: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: No special precautions. In the event of burns caused by hot or molten material the usual first-aid measures have to be applied.

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

Skin Contact: Cool skin rapidly with cold water after contact with molten material. If symptoms persist, consult a physician for treatment.

Eye contact: If mechanical irritation occurs flush eyes thoroughly with a large amount of water, consult a physician if irritation persists.

Ingestion: Do NOT induce vomiting. Call a physician immediately.

Personal Protection for First-aid Responders: In the event of fire, wear self-contained breathing apparatus and full protective suit.

Most important symptoms/effects, acute and delayed

Symptoms: No hazards known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: This substance does not have any noteworthy noxious potential. Damage to health is thus not expected.

5. Fire-fighting measures

General Fire Hazards: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Prevent fire extinguishing water from contaminating surface water or the ground water system. In case of fire cool endangered containers with water.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, CO2, dry powder.

Unsuitable extinguishing media: High volume water jet

Specific hazards arising from the chemical: May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Dust can form an explosive mixture in air. Keep away from heat and sources of ignition.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus and full protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear personal protective equipment; see section 8. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Keep away sources of ignition. Assure sufficient ventilation. Danger of slipping after spill or leakage.

Methods and material for containment and cleaning up:

Pick up mechanically. Collect in suitable containers. Obey relevant local, state, provincial and federal laws and regulations.

Environmental Precautions:

Prevent material from entering drains and/or water ways.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

If use operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Safe handling advice:

Normal measures for preventive fire protection. Take precautionary measures against static discharges. In case of fire cool endangered containers with water. Dust can form an explosive mixture in air. Keep away from heat and sources of ignition. Avoid dust formation. In case of thermal processing, provide for extraction of the vapors or adequate ventilation. A safety shower and eye wash fountain should be readily available. 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.

Contact avoidance measures:

No data available.

Hygiene measures:

General industrial hygiene practice. Cleanse and apply cream to skin after work.

Storage

Safe storage conditions: Observe prohibition against storing together! Do not allow accumulation of dust. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in the original receptacle, keeping this tightly sealed, under cool and dry conditions. Keep away from direct sunlight. Take precautionary measures against static discharge.

Safe packaging materials: No data available.

Storage Temperature: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
exposure limit for dust - Respirable particles.	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2016)
exposure limit for dust - Inhalable particles.	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2016)
exposure limit for dust - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
exposure limit for dust - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
exposure limit for dust - Total dust.	TWA	15 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
exposure limit for dust - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
exposure limit for dust - Total dust.	TWA	15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
exposure limit for dust - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
exposure limit for dust - Total dust.	TWA	15 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
exposure limit for dust - Respirable fraction.	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
exposure limit for dust - Total dust.	TWA PEL	10 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
exposure limit for dust - Respirable fraction.	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
methyl methacrylate	REL	100 ppm 410 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	TWA	50 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	100 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	PEL	100 ppm 410 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	IDLH	1,000 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	TWA	100 ppm 410 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	100 ppm 410 mg/m ³	US. Tennessee. OELs. Occupational Exposure

			Limits, Table Z1A, as amended (06 2008)
	AN ESL	50 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	210 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	AN ESL	210 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	860 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	TWA PEL	50 ppm 205 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
	STEL	100 ppm 410 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)

Appropriate Engineering Controls If use operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Eye/face protection: Use safety glasses (ANSI Z87.1 or approved equivalent).

Skin Protection

Hand Protection: Material: protective gloves against mechanical risks according to EN 388
Additional Information: The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials., The suitability for a specific workplace should be discussed with the producers of the protective gloves., Selection of protective gloves to meet the requirements of specific workplaces., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature)., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and Body Protection: suitable protective clothing

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hygiene measures: General industrial hygiene practice. Cleanse and apply cream to skin after work.

9. Physical and chemical properties

Appearance

Physical state: solid

Form:	Pellets granular
Color:	Various, depending on coloration,
Odor:	Odorless
Odor Threshold:	No data available.
pH:	Not applicable
Melting Point:	(Softening Temperature) No data available.
Boiling Point:	Not applicable
Flash Point:	No data available.
Evaporation Rate:	Not applicable
Flammability (solid, gas):	No data available.
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Vapor pressure:	Not applicable
Relative vapor density:	Not applicable
Density:	No data available.
Relative density:	No data available.
Solubility in Water:	Insoluble
Solubility (other):	in e.g. esters, ketones and chlorinated hydrocarbons: readily soluble
Partition coefficient (n-octanol/water):	Not applicable
Self Ignition Temperature:	not pyrophoric
Decomposition Temperature:	Stable under recommended storage conditions. No decomposition if stored and applied as directed. Depolymerization begins at 250 °C / 482 °F.
Kinematic viscosity:	Not applicable
Dynamic viscosity:	Not applicable
Other information	
Bulk density:	
Explosive properties:	If dusts develop, explosive dust/air mixtures may form.
Oxidizing properties:	Not expected during handling from practical experience.
Minimum ignition temperature:	No data available.
Reactions with Water/Air:	Not expected during handling from practical experience.:
Metal Corrosion:	Not expected during handling from practical experience.
Peroxides:	The substance or mixture is not classified as organic peroxide. Information derived from practical experience.
Self-heating:	The substance or mixture is not classified as self heating. Information derived from practical experience.

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	Stable under recommended storage conditions. No decomposition if stored and applied as directed. Depolymerization begins at 250 °C / 482 °F.

Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	High temperature.
Incompatible Materials:	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

11. Toxicological information

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

Information on likely routes of exposure

Inhalation: Relevant route of exposure. Information on effects are given below.

Skin Contact: Relevant route of exposure. Information on effects are given below.

Eye contact: Relevant route of exposure. Information on effects are given below.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific symptoms noted.

Skin Contact: No specific symptoms noted.

Eye contact: No specific symptoms noted.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects are given below.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: no specific test data available

Dermal

Product: no specific test data available

Inhalation

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

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

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

Serious Eye Damage/Eye Irritation

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

Respiratory or Skin Sensitization

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

Carcinogenicity

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

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

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

Specific Target Organ Toxicity - Single Exposure

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

Specific Target Organ Toxicity - Repeated Exposure

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

Aspiration Hazard

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

Other effects:

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. Carefully avoid skin and eye contact and inhalation of product dust/aerosols.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

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

Aquatic Invertebrates

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

Chronic hazards to the aquatic environment:

Fish

Product: No data on possible environmental effects have been found.

Aquatic Invertebrates

Product: No test results available. No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Toxicity to Aquatic Plants

Product: No test results available. no evidence for hazardous properties (structure-activity-relationships) (analogy)

Persistence and Degradability

Biodegradation

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

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

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

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable

Mobility in soil: No data available.

Other adverse effects: No ecotoxicological data is available for this product. 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

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Roehm encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.
Contaminated Packaging:	Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Uncontaminated packaging may be recycled. Packaging that cannot be cleaned must be disposed of like the substance.

14. Transport information

Domestic regulation

49 CFR

Not regulated as a dangerous good

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 MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16. Other information, including date of preparation or last revision

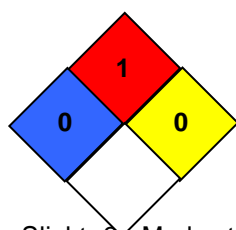
HMIS Hazard ID

Health	0
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	B

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



- Flammability
- Health
- Reactivity
- Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

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

Further Information: none

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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