SAFETY DATA SHEET

1. Identification

Product identifier: PLEXIGLAS®
8N red 33711

Chemical name: acrylic polymer

Other means of identification

Recommended use: moulding mixture
Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Company Name	:	Röhm GmbH Product Stewardship Deutsche-Telekom-Allee 9 64295 Darmstadt
Telephone	:	+49 6151 863 7542
E-mail	:	sds-info@roehm.com

Manufacturer
Emergency telephone number:

24-Hour Health Emergency	:	+49 6241 402 5280 (24h)

2. Hazard(s) identification

According to Hazardous Product Regulations
Not classified

Label Elements

Hazard Symbol:	No symbol
Signal Word:	No signal word.
Hazard Statement:	Not applicable
Precautionary Statements	Not a hazardous substance or mixture.

Other hazards: Dust explosions are generally to be expected with dust-forming organic products. Danger of slipping due to leaking or spilt product. Take precautionary measures against static discharges.

3. Composition/information on ingredients

Chemical name:
acrylic polymer

Mixtures

Composition Comments: acrylic polymer

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 case of respirable dust and/or fumes, use self-contained breathing apparatus. Wear suitable protective clothing.

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.

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 case of respirable dust and/or fumes, use self-contained breathing apparatus. Wear suitable protective clothing.

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: Use mechanical handling equipment. To be disposed of in compliance with existing regulations.

Environmental Precautions: Prevent material from entering drains and/or water ways.

7. Handling and storage

Precautions for safe handling: Do not breathe dust. Normal measures for preventive fire protection. Take precautionary measures against static discharges. In case of fire cool endangered containers with water. Wear personal protective equipment; see section 8. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. If the product is thermally treated, provide for a vapour exhaust device. Dust can form an explosive mixture in air. Keep away from heat and sources of ignition.

Conditions for safe storage, including any incompatibilities: 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 receptable, keeping this tightly sealed, under cool and dry conditions. Keep away from direct sunlight. Take precautionary measures against static discharge.

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/m3	US. ACGIH Threshold Limit Values (03 2016)
exposure limit for dust - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (03 2016)
methyl methacrylate	TWA	50 ppm	US. ACGIH Threshold Limit Values (03 2016)
	STEL	100 ppm	US. ACGIH Threshold Limit Values (03 2016)

Observe national threshold limit values.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls For monitoring procedures refer for instance to "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety glasses

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.

Other: suitable protective clothing

Respiratory Protection: respiratory protection in case of dust formation short term: filter appliance, filter P1

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.
Flammability Limit - Upper (%):	Not applicable
Flammability Limit - Lower (%):	Not applicable
Vapor pressure:	Not applicable
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble

Solubility (other):	in e.g. esters, ketones and chlorinated hydrocarbons: readily soluble
Partition coefficient (n-octanol/water):	Not applicable
Autoignition Temperature:	not pyrophoric
Decomposition Temperature:	No decomposition if stored and applied as directed. Depolymerization begins at 250 °C
Kinematic viscosity:	Not applicable
Dynamic viscosity:	Not applicable
Explosive properties:	If dusts develop, explosive dust/air mixtures may form.
Oxidizing properties:	Not expected during handling from practical experience.

Other information

Bulk density:	
Dust Explosion Limit, Upper:	Not applicable
Dust Explosion Limit, Lower:	Not applicable
Minimum ignition temperature:	No data available.
Metal Corrosion:	Not expected during handling from practical experience.
Peroxides:	
Self-heating:	
Self Ignition Temperature:	not pyrophoric

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No decomposition if stored and applied as directed. Depolymerization begins at 250 °C
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 availableNo data available.

Dermal
Product: no evidence for hazardous propertiesNo data available.

Inhalation
Product: no evidence for hazardous propertiesNo data available.

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 data available.

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)

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

General information: No data is available on the product itself. No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

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 data on possible environmental effects have been found.

Toxicity to Aquatic Plants

Product: no evidence for hazardous properties

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: The product is insoluble and floats on water.
no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)

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: Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

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

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

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

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

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