SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:

PLEXIGLAS® Hi-Gloss
8N piano black 9V022 AA

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: moulding mixture

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company Name : Röhm GmbH
Product Stewardship
Deutsche-Telekom-Allee 9
64295 Darmstadt

Telephone : +49 6151 863 7542

E-mail : sds-info@roehm.com

1.4 Emergency telephone number:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements Not applicable

2.3 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: acrylic polymer

SECTION 4: First aid measures

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

4.1 Description of first aid measures

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.

4.2 Most important symptoms and effects, both acute and delayed: No hazards known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

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

SECTION 5: Firefighting 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.

5.1 Extinguishing media

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

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture: May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

5.3 Advice 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.

SECTION 6: Accidental release measures

6.1 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.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

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

6.3 Methods and material for containment and cleaning up: Use mechanical handling equipment. To be disposed of in compliance with existing regulations.

6.4 Reference to other sections: For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage:

7.1 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.

7.2 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.

7.3 Specific end use(s): We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values		Source
exposure limit for dust - Inhalable dust.	TWA		10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
exposure limit for dust - Respirable dust.	TWA		4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
methyl methacrylate	TWA	50 ppm	208 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	STEL	100 ppm	416 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	TWA	50 ppm		EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (02 2017)
	STEL	100 ppm		EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC,

			2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (02 2017)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source

8.2 Exposure controls

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

Eye/face protection: Safety glasses

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.
Additional Information: The selected protective gloves have to satisfy the specifications of EC Regulation 2016/425 and the standard EN 374 derived from it.

Skin and Body Protection: 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.

Environmental Controls: see section 6.

SECTION 9: Physical and chemical properties

9.1 Information on basic 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
Self Ignition 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

9.2 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.
Self-heating:	The substance or mixture is not classified as self heating. Information derived from practical experience.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	No decomposition if stored and applied as directed. Depolymerization begins at 250 °C
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	High temperature.
10.5 Incompatible Materials:	No known incompatibility with other materials.
10.6 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

SECTION 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.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified no specific test data available, no evidence for hazardous properties, (structure-activity-relationships), (analogy)

Dermal

Product: Not classified no evidence for hazardous properties

Inhalation

Product: Not classified no evidence for hazardous properties

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)

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Carcinogenicity

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

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 adverse 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.

SECTION 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.

12.1 Toxicity

Acute toxicity

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)

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

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

Chronic Toxicity

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 data available.

12.2 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.

12.3 Bioaccumulative potential

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

12.4 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)

12.5 Results of PBT and vPvB assessment: PBT: no vPvB: no

12.6 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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

National Regulations

Please note Directive 92/85/EEC (Pregnant Workers Directive) and amendments.
Please note Directive 94/33/EC (Protection of Young Workers at the Workplace Directive) and amendments.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN -** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW -** Occupational exposure limit; **ASTM -** American Society

for Testing and Materials; **AwSV -** Ordinance on facilities for handling substances that are hazardous to water; **BSB -** Biochemical oxygen demand; **c.c. -** closed cup; **CAS -** Chemical Abstract Services; **CESIO -** European Committee of Organic Surfactants and their Intermediates; **CSB -** Chemical oxygen demand; **DMEL -** Derived minimum effect level; **DNEL -** Derived no effect level; **EbC50 -** median concentration in terms of reduction of growth; **EC -** Effective concentration; **EINECS -** European Inventory of Existing Commercial Chemical Substances; **EN -** European norm; **ErC50 -** median concentration in terms of reduction of growth rate; **GGVSEB -** German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee -** German ordinance for sea transportation of dangerous goods; **GLP -** Good Laboratory Practice; **GMO -** Genetic Modified Organism; **IATA -** International Air Transport Association; **ICAO -** International Civil Aviation Organization; **IMDG -** International Maritime Dangerous Goods; **ISO -** International Organization For Standardization; **LD/LC -** lethal dosis/concentration; **LOAEL -** Lowest observed adverse effect level; **LOEL -** Lowest observed effect level; **M-Factor -** multiplying factor; **NOAEL -** No observed adverse effect level; **NOEC -** no observed effect concentration; **NOEL -** no observed effect level; **o.c. -** open cup; **OECD -** Organisation for Economic Cooperation and Development; **OEL -** Occupational Exposure Limit; **PBT -** Persistent, bioaccumulative, toxic; **PNEC -** Predicted no effect concentration; **REACH -** REACH registration; **RID -** Convention concerning International Carriage by Rail; **SVHC -** Substances of Very High Concern; **TA -** Technical Instructions; **TRGS -** Technical Rules for Hazardous Substances; **vPvB -** very persistent, very bioaccumulative; **WGK -** Water Hazard Class

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

Training information: Comply with national laws regulating employee instruction.

Other information: none

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

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