

Safety Data Sheet

UN-GHS (Rev.4) (2011)

Status: 14.08.2012

Version: 1.0



PLEXIGLAS® Hi-Gloss - Molding Compound

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

PLEXIGLAS® Hi-Gloss - Molding Compound

acrylic polymer

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

Recommended use(s): molding compound for injection molding and extrusion

Non-recommended use(s): None known.

1.3. Details of the supplier of the safety data sheet

Evonik Industries AG
Plant Roehm Darmstadt
Chemicals Management
Kirschenallee
64293 Darmstadt
Germany
+49 6151 18 01

E-Mail: cmda@evonik.com

Information provided by :
+49 6151 18 40 76

1.4. Emergency telephone number

+49 6151 18 43 42

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This mixture is not classified according to GHS

GHS-Classification As per UN-GHS

Not applicable.

2.2. Label elements As per UN-GHS

Not applicable.

2.3. Other hazards

Dust explosions are generally to be expected with dust-forming organic products.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

3.2. Mixtures

Hazardous Ingredients As per UN-GHS

Component	CAS-No.	Content	Hazard class / Hazard category / Hazard statement
acrylic copolymer colourless		>= 99.0 %	not applicable

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or			
acrylic copolymer coloured		>= 95.0 %	not applicable

4. FIRST AID MEASURES

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	After contact with melted product cool quickly with cold water. See a physician.
Eye contact	If mechanical irritation occurs flush eyes thoroughly with a large amount of water, consult a physician if irritation persists.
Ingestion	Ingestion is not considered a potential route of exposure.

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

no

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	foam, dry chemical, carbon dioxide, water spray
Extinguishing media which must not be used for safety reasons	full water jet

5.2. Special hazards arising from the substance or mixture

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. Advice for firefighters

Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Dispose of in accordance with regulations.

6.4. Reference to other sections

For personal protection see section 8.

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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.
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7.3. Specific end use(s)

no

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

see section 8.2.

8.2. Exposure controls

Protective measures	Do not inhale dust.
Hygiene measures	Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.
Eye protection	safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	pellets, granules
Colour	various, depending on coloration
Odour	odourless
Softening Temperature	not available
Boiling Temperature	not applicable
Lower explosion limit	not available
Upper explosion limit	not available
Vapour pressure	not applicable
Bulk density	not available
Solubility in water	insoluble
Solubility (qualitative)	in e.g. esters, ketones and chlorinated hydrocarbons: readily soluble
pH	not applicable
Viscosity (dynamic)	not applicable

9.2. Other information

Dust explosions are generally to be expected with dust-forming organic products.

10. STABILITY AND REACTIVITY

10.1. Reactivity

see section 10.2.

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10.2. Chemical Stability

>250 °C (Depolymerization) No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous 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

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

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Reprotoxicity / teratogenicity	no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
Human health hazard 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)
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12.2. Persistence and degradability

Persistence and degradability	no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
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12.3. Bioaccumulative potential

Bioaccumulation	no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
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12.4. Mobility in soil

Mobility	no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment	PBT: no vPvB: no
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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.
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13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product	Waste is non-hazardous. It should be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.
Uncleaned packaging	Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

14. TRANSPORT INFORMATION

14.1. UN number

see section 14.2.

14.2. UN proper shipping name

Land transport ADR/GGVSEB

Not dangerous according to transport regulations.

Land transport RID/GGVSEB

Not dangerous according to transport regulations.

Inland waterway transport ADN/GGVSEB (Germany)

Not dangerous according to transport regulations.

Shipment by sea IMDG/GGVSee

Not dangerous according to transport regulations.

Air transport ICAO/IATA

Not dangerous according to transport regulations.

14.3. Transport hazard class(es)

see section 14.2.

14.4. Packing group

see section 14.2.

14.5. Environmental hazards

if not mentioned in Point 14.2 then it does not apply

14.6. Special precautions for user

see section 14.2.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

for transport approval see regulatory information

15. REGULATORY INFORMATION

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

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Classification as per Directive 67/548/EC or Directive 1999/45/EC

Labelling in accordance with directive 1999/45/EC not applicable

National legislation

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

Status of Registration

REACH (EU)	preregistered, registered or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted
HSNO (NZ)	listed or exempted

16. OTHER INFORMATION

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

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

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