

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:

PLEXIMID®
TT50 clear L14

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
Kirschenallee
64293 Darmstadt

Telephone : +49 6151 18 4076

E-mail : sds-info@roehm.com

1.4 Emergency telephone number:

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

Emergency : +49 6131 19 240 (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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: acrylic polymer

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
acrylic copolymer, Polymer	>=95%			.	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC

Classification

Chemical name	Classification	Notes
acrylic copolymer, Polymer	None known.	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 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: 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: No hazards known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: No

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray. foam Dry chemical. Carbon dioxide

Unsuitable extinguishing media: High volume 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. Products or compounds possibly released in case of fire: methyl isocyanate

**5.3 Advice for firefighters
Special fire fighting procedures:** No data available.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective gloves and eye protectors.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

6.2 Environmental Precautions: Do not release into the environment. Collect and dispose of unused residues.

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: No data available.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Avoid dust formation. During thermal processing and/or machining local exhaust ventilation at processing machines is necessary. Take action to prevent static discharges. In the event of fire, cool the endangered product with water. Do not inhale dust.

7.2 Conditions for safe storage, including any incompatibilities: Storage: dry.

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
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Methyl methacrylate	TWA	50 ppm 208 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	100 ppm 416 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (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 (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 (02 2017)
exposure limit for dust - Inhalable dust.	TWA	10 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
exposure limit for dust - Respirable dust.	TWA	4 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
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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:

goggles for machining operations

Hand Protection:

Material: protective gloves against mechanical risks according to EN 388
Additional Information: For each work-place a suitable glove type has to be selected., Gloves should be replaced regularly, especially after extended contact with the product.

Skin and Body Protection:

No data available.

Respiratory Protection:

If used in accordance with the regulations: No particular protective equipment required. dust mask may be required for machining operations
respiratory protection in case of dust formation short term: filter appliance, filter P1

Hygiene measures:

Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream. Clean skin thoroughly after work; apply skin cream. Follow the usual good standards of occupational hygiene.

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:

Granules

Color:

colourless or dyed

Odor:

Odorless

Odor Threshold:	No data available.
pH:	Not applicable
Melting Point:	130 - 170 °C
Boiling Point:	Not applicable
Flash Point:	> 330 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	Not applicable
Flammability Limit - Lower (%):	Not applicable
Vapor pressure:	Not applicable
Vapor density (air=1):	Not applicable
Density:	1.19 g/cm ³ (20 °C)
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:	No data available.
Decomposition Temperature:	This material is considered stable under specified conditions of storage, shipment and/or use.
Kinematic viscosity:	No data available.
Dynamic viscosity:	Not applicable
9.2 Other information	
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Minimum ignition temperature:	> 400 °C

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	This material is considered stable under specified conditions of storage, shipment and/or use.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	High temperature Depolymerization begins at 250 °C
10.5 Incompatible Materials:	None reasonably foreseeable.
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 nitrogen-containing compounds (amines) and their oxidation products

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)
Components: acrylic copolymer, Polymer	Not toxic after single exposure Expert judgement, No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Dermal

Product:	Not classified no evidence for hazardous properties
Components: acrylic copolymer, Polymer	Not toxic after single exposure, Expert judgement, No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Inhalation

Product:	Not classified no evidence for hazardous properties
Components: acrylic copolymer, Polymer	Not toxic after single exposure, Expert judgement, No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Repeated dose toxicity

Product:	No data available.
Components: acrylic copolymer, Polymer	No data available.

Skin Corrosion/Irritation:

Product:	no specific test data available no evidence for hazardous properties (structure-activity-relationships) (analogy)
Components: acrylic copolymer, Polymer	No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Serious Eye Damage/Eye

Irritation:

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

Components:
acrylic copolymer,
Polymer Not irritating No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Respiratory or Skin

Sensitization:

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

Components:
acrylic copolymer,
Polymer Not a skin sensitizer. No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:
acrylic copolymer,
Polymer Not classified

In vivo

Product: No data available.

Components:
acrylic copolymer,
Polymer Not classified

Carcinogenicity

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

Components:
acrylic copolymer,
Polymer An Expert Judgment stated that no classification is necessary based on present knowledge. No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Reproductive toxicity

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

Components:
acrylic copolymer,
Polymer An Expert Judgment stated that no classification is necessary based on present knowledge. No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Specific Target Organ Toxicity - Single Exposure

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

Components:

acrylic copolymer,
Polymer

Not classified No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Specific Target Organ Toxicity - Repeated Exposure

Product:

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

Components:

acrylic copolymer,
Polymer

Not classified No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Aspiration Hazard

Product:

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

Components:

acrylic copolymer,
Polymer

Not classified No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

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

12.1 Toxicity

Acute toxicity

Fish

Product:

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

Components

acrylic copolymer,
Polymer

No data available.

Aquatic Invertebrates

Product:

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

Components

acrylic copolymer,
Polymer

No data available.

Toxicity to Aquatic Plants

Product:

No data available.

Components

acrylic copolymer,
Polymer

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.

Components

acrylic copolymer,
Polymer No data available.

Chronic Toxicity

Fish

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

Components

acrylic copolymer,
Polymer No data available.

Aquatic Invertebrates

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

Components

acrylic copolymer,
Polymer No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

acrylic copolymer,
Polymer No data available.

12.2 Persistence and Degradability

Biodegradation

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

BOD/COD Ratio

Product No data available.

Components

acrylic copolymer,
Polymer 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:

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

acrylic copolymer,
Polymer

Non-classified vPvB substance Non-
classified PBT substance

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:** 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.
- Contaminated Packaging:** Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

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 dose/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

SDS No.:

Disclaimer:

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