

Safety data sheet according to Regulation (EC) No. 1907/2006

Trade name: Separating dust based on PMMA

Created on: 24 October 2003 Version: **386-8**

Revised on: 11 April 2022

Replaced: 386-7

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

1.1 Product identifier

Substance name/ Trade name: **esplas H60, H130**

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

Relevant identified uses: Separating and test dust

Uses advised against: -

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier: KSL staubtechnik gmbh

Address/ PO Box: Westendstrasse 11

Nat.-Ident./ Postcode/ city: DE - 89415 Lauingen

Telephone/ Fax/ E-mail: +49 (0) 9072 / 95 00-0 / Fax: -50 / info@ksl-staubtechnik.de

1.4 Emergency telephone number

+49 (0) 9072/ 95 00-0 (Accessibility: Mon-Thu 8am to 4pm, Fri 8am to 12pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

No hazardous substance or hazardous mixture according to Regulation (EC) No. 1272/2008

2.2 Label elements

2.2.1 Label elements according to Regulation (EC) No. 1272/2008

Not subject to label according to Regulation (EC) No. 1272/2008

2.3 Other hazards

May form an explosive dust-air mixture if dispersed - Dust explosion hazard.

Under normal use, adverse health effects are not known or expected.

SECTION 3: Composition/information on ingredients

3.1 Substances

The product is a mixture.

3.2 Mixtures

Composition/ information on ingredients

Description of the mixture: Separating dust based on PMMA

Hazardous ingredients: None

Product identifier	CAS No.	EC No.	Concentration range [M.-%]	Classification according to Regulation (EC) No. 1272/2008
Polymethyl methacrylate	9011-14-7	-	99.8 %	Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

If symptoms persist, it is advised to consult a doctor. Please specify substance/product and measures taken to the doctor.

After inhalation:

Move to fresh air.

After skin contact:

Wash with water and soap. After contact with the molten product, cool skin area rapidly with cold water.

After eye contact:

While protecting the uninjured eye, rinse the eye under running water for 15 minutes with eyelids held open wide. Seek medical treatment.

After ingestion:

Rinse mouth with plenty of water. Spit out the fluid once more.

4.2 Most important symptoms and effects, both acute and delayed

Dust may cause irritation of the eyes and respiratory tract (caused by foreign bodies).

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4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable:

Water spray jet, foam, dry powder and carbon dioxide

Unsuitable:

Solid water jet: Hazard of dust cloud mixture

5.2 Special hazards arising from the substance or mixture

Dust and air may form explosive mixtures.

With prolonged heating above 250° C, hazardous decomposition products (methyl methacrylate, oxidised hydrocarbons, carbon monoxide and carbon particles) can form. Inhalation of vapours in high concentrations may irritate the respiratory tract.

5.3 Advice for firefighters

Self-contained breathing apparatus

5.4 Additional advice

Take precautionary measures against static charges. Avoid dust formation.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Wear protective clothing as described under Section 8. Follow the instructions for safe use, as described under Section 7. Remove ignition sources, ensure adequate ventilation and avoid dust formation.

6.1.2 For emergency responders

Emergency plans are not necessary. With high dust levels, respiratory protection is however required.

6.2 Environmental precautions

No direct discharge of aqueous suspensions in water. Keep the substance away from waters, sewerage or soil. Hazard to drinking water can only occur if large amounts enter the soil and waters; in this case, notify authorities.

6.3 Methods and material for containment and cleaning up

6.3.1 Notes for containment

Avoid dust generation.

6.3.2 Notes for clean-up

Absorb or suck the mixture mechanically. For disposal, collect it in the containers provided for this purpose, according to local regulations. Use approved industrial vacuum cleaners or suction systems for potentially explosive areas.

6.3.3 Advice on inappropriate containment and cleaning methods

Blowing-off for cleaning purposes is not permitted.

6.4 Reference to other sections

As to disposal, please refer to Section 13 of the Safety Data Sheet (SDS). Personal protective equipment is specified in section 8 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Recommendations on safe handling

Avoid dust formation and deposits.

Measures to prevent fire and explosion

Take precautionary measures against static charges. Avoid dust formation. Keep away from sources of ignition. In case of fire, cool endangered product with water.

Measures to prevent aerosol and dust generation

Sweep only with an appropriate cleaning agent. For cleaning, use suitable methods as dry as possible - such as vacuum intake - that do not cause dust generation.

Measures to protect the environment

Keep the substance away from waters, sewerage or soil.

7.1.2 Advice on general occupational hygiene

During work do not drink, eat or smoke. Wash hands after use/ contact. In dusty atmosphere, use breathing masks and safety goggles.

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7.2 Conditions for safe storage, including any incompatibilities

Advice on storage conditions

Store containers dry. Do not store together with explosives and/or oxidising substances.

Requirements for storage rooms and vessels

Store in dry and sealed containers, possibly the original ones.

Storage class: VCI: 11 (flammable solids)

7.3 Specific end use(s)

Industry and sector specific guidance

For specific end uses (see Section 1.2), no additional information is available.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Components with workplace-related limit values to be monitored:

Chemical identity	CAS No.	EC No.	National limit value	Exposure type	Comment/ Legal provision
General dust limit value	-	-	1,25 (A) mg/m ³ (respirable)	inhalative	Workplace-related limit value TRGS 900
General dust limit value	-	-	10 (E) mg/m ³ (inhalable)	inhalative	Workplace-related limit value TRGS 900

8.2 Exposure controls

To comply with workplace-related limit values, combined technical and individual protection measures are often necessary. Recommended measuring procedures for workplace-related measurements: see the professional association series of papers. Technical measures and the selection of appropriate processes have priority over the use of personal protective equipment.

8.2.1 Appropriate engineering controls

For the identified uses (Section 1.2), technical control devices and personal protection measures are recommended. Ventilate as required to control dust in the air. With high dust content in the air, use a ventilation system.

8.2.2 Individual protection measures, such as personal protective equipment

General

When the product is used as intended, no personal protective equipment is necessary. Treat the product in compliance with the safety instructions.

Eye/face protection

In case of dust generation, wear closed protective goggles according to EN 166.

Skin/hand protection

In sensitive people, it may be mildly irritating to the skin due to mechanical friction. If necessary, wear protective gloves according to Standard EN 374.

Respiratory protection

In case the exposure limit values are exceeded (e.g. with open handling of powdery product), a suitable breathing mask with P1 or P2 particle filter must be worn according to Standard 143, depending on dust exposure.

Occupational hygiene

During work do not drink, eat or smoke. Wash your hands before any breaks and after finishing work, and if necessary have a shower. Avoid contact with eyes and skin. After work, workers should wash or have a shower and use skin care products. Clean contaminated clothing, shoes, watches, etc., before re-using.

8.2.3 Environmental exposure controls

See Sections 6 and 7. No further action is required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a)	State of aggregation	powder - solid
(b)	Colour	varying
(c)	Odour	faintly characteristic
(d)	Melting point/freezing point	105° C - 180° C / not applicable
(e)	Boiling point or initial boiling point and boiling range	not applicable
(f)	Flammability	no data available
(g)	Lower and upper explosion limit	not applicable to solids according to Regulation (EU) 2020/878.
(h)	Flash point	not applicable to gases, aerosols and solids according to Regulation (EU) 2020/878.
(i)	Ignition temperature	applies only to gases and liquids according to Regulation (EU) 2020/878.
(j)	Decomposition temperature	> 260°C
(k)	pH value	not applicable
(l)	Kinematic viscosity	applies to liquids only according to Regulation (EU) 2020/878.
(m)	Solubility	insoluble in water, soluble in various organic solvents.
(n)	Partition coefficient n-octanol/water (log value)	no data available
(o)	Vapour pressure	not applicable
(p)	Density and/or specific gravity	> 1g/cm (at 20°C) / not applicable
(q)	Relative vapour density	only applicable to gases and liquids according to Regulation (EU) 2020/878.
(r)	Particle properties	X ₅₀ value is between 40µm and 200µm.

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9.2 Other information

Not applicable

9.2.1 Information on physical properties

Not applicable

9.2.2 Other safety parameters

a)	mechanical sensitivity	not applicable	
b)	Temperature of self-accelerating polymerisation		not applicable
c)	Formation of explosive dust-air mixtures		LEL \geq 30 g/m ³ P _{max} approx. 7.5 bar ₀ Ignition temperature > 350° C K _{St} value approx. 100 bar · m/s Dust explosion class St1
d)	Buffer capacity	not applicable	
e)	Evaporation rate	not applicable	
f)	Miscibility	not applicable	
g)	Conductivity	not applicable	
h)	Corrosivity	not applicable	
i)	Gas group	not applicable	
j)	Redox potential	not applicable	
k)	radical formation potential	not applicable	
l)	Photocatalytic properties	not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

In case of appropriate storage and handling, no hazardous reactions are known.
Dust explosion hazard with dust-air mixtures

10.2 Chemical stability

Under normal ambient temperature and pressure, the mixture is stable.

10.3 Possibility of hazardous reactions

No hazard under normal storage conditions.

10.4 Conditions to avoid

Temperatures > 105° C

10.5 Incompatible materials

None

10.6 Hazardous decomposition products

None if used as intended.

SECTION 11: Toxicological information

11.1 Information on hazard classes within the meaning of Regulation (EC) No 1272/2008

For the product, no toxicological information is available.

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

- a) **Acute toxicity**
No information available / not a hazardous substance
- b) **Corrosive/irritant effect on the skin**
No information available / not a hazardous substance
- c) **Serious eye damage/irritation**
No information available / not a hazardous substance
- d) **Respiratory or skin sensitisation**
No information available / not a hazardous substance
- e) **Germ cell mutagenicity**
No information available / not a hazardous substance
- f) **Carcinogenicity**
No information available / not a hazardous substance
- g) **Reproductive toxicity**
No information available / not a hazardous substance
- h) **Specific target organ toxicity – single exposure**
No information available / not a hazardous substance
- i) **Specific target organ toxicity – repeated exposure**
No information available / not a hazardous substance
- j) **Aspiration hazard**
No information available / not a hazardous substance

Delayed and immediate effects, as well as chronic effects from short- and long-term exposure

Immediate effects

Irritation of the eyes or respiratory tract caused by exposure to foreign bodies may occur

Chronic effects with prolonged exposure

No information available / not a hazardous substance

11.2 Information on other hazards

No endocrine disrupting properties or other adverse effects are known.

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SECTION 12: Ecological information

For the product, no ecotoxicological data is available.

12.1 Toxicity

No data available, as no data is available from the raw material supplier.

12.2 Persistence and degradability

No data available, as no data is available from the raw material supplier.

12.3 Bioaccumulative potential

No data available, as no data is available from the raw material supplier.

12.4 Mobility in soil

No data available, as no data is available from the raw material supplier.

12.5 Results of PBT and vPvB assessment

Exempt

12.6 Endocrine disrupting properties

No data available, as no data is available from the raw material supplier.

12.7 Other adverse effects

Unknown

SECTION 13: Disposal considerations

13.1 Waste treatment methods

It can be disposed of together with household waste in compliance with local regulations. Collect the product dry. Do not dispose of into drains or surface waters.

Recommendation

Agree on the correct waste code with the disposal company.

Waste code according to the European List of Waste (LoW)

070213 – Plastic waste

Treatment of purified/unclean packaging

150106 – mixed packaging suitable for material recycling

SECTION 14: Transport information

With respect to transport regulations, the product is not hazardous (ADR, RID, ADN, IMDG, ICAO/IATA).

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

No special measures

14.7 Transport in bulk by sea in accordance with IMO instruments

Not applicable

SECTION 15: Regulatory information

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

The product does not fall within the registration requirement of EC Regulation 1907/2006 (REACH).

EU regulations

National regulations

When handling this product, the following valid legal provisions are i. a. to be complied with

AwSV Water hazard class: 0 - not hazardous for water

TRGS 500 "precautions"

TRGS 900 "Work-place related limit values"

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Technical Instructions on Air Quality Control

Regulation on occupational health care (Verordnung zur arbeitsmedizinischen Vorsorge - ArbMedVV)

Basic principles of the Institution for Statutory Accident Insurance and Prevention on occupational medical examinations

15.2 Chemical safety assessment

No Chemical Safety Assessment is required for this mixture.

SECTION 16: Other information

16.1 Changes to the previous version

Header adapted; Paragraph 1.1: updated; Paragraph 2.3: Sentence updated; Paragraph 3.2: Column "REACH" removed, CAS No. actualised; Paragraph 6.1.1: Sentence inserted; Paragraph 6.4: Reference inserted; Paragraph 9.1: Paragraph adapted to the information from Regulation (EU) 2020/878; Paragraph 9.2.1, 9.2.2: new inserted; Paragraph 10.6: updated; Paragraph 11.1: Heading and enumeration adapted to Regulation (EU) 2020/878, sentence inserted; Paragraph 11. 2: new; Paragraph 12: editorial changes; Paragraph 12.6: new; Paragraphs 14.1, 14.7: adaptation of the headings to the above-mentioned regulation; Paragraphs 15.1, 16.2, 16.4: water hazard class was renamed from "VwVwS" to "AwSV" and reviewed; Paragraph 15.2: editorial changes; Paragraph 16.6: new

16.2 Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ArbMedVV	Verordnung zur arbeitsmedizinischen Vorsorge (Regulation on occupational health care)
BG	Berufsgenossenschaft (Institution for Statutory Accident Insurance and Prevention)
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No. 1272/2008)
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International agreement on the Maritime transport of Hazardous Goods
PBT	Persistent, bio-accumulative and toxic
REACH	Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) 1907/2006)
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
TRGS	Technische Regeln für Gefahrstoffe (Technical rules for dangerous substances)
VCI	Verband der chemischen Industrie e.V. (Registered association of the chemical industry)
vPvB	Very persistent, very bioaccumulative
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on Installations for Handling Substances Hazardous to Water)

16.3 Literature references and sources of data

With regard to the sources of key data and technical information we refer to the information provided by the raw material supplier/ manufacturer or the ECHA Classification and Labelling Inventory.

16.4 Methods compliant with article 9 of Regulation (EC) No. 1272/2008 used to evaluate information for the purpose of classification

No own assessment of the mixture has been made.

Bridging principles for the classification of mixtures according to Regulation (EC) No. 1272/2008, article 6, paragraph 5 have been applied.

The classification of the water pollution class of this mixture has been carried out according to the AwSV.

16.5 Training appropriate for workers

In addition to training programmes for employees on the topics of health, safety and environment, companies must ensure that their employees read and understand this safety data and are able to implement its requirements.

16.6 Information about NANO

We do not use any nanotechnology processes and no synthetic nano-materials are used for production. However, we cannot exclude the presence of small amounts of nanoparticles in the material. In order to obtain the desired particle size distribution in our product, the product is crushed and then sieved. It could be that some nanoparticles are produced in such a comminution process. By the way, the same applies to products such as flour or sugar! Excluding NANO material is therefore not possible.

16.7 Other information

The information contained in this safety data sheet describes the safety requirements of our product and is based on our current level of knowledge. It implies no guarantee of the product properties and does not justify a contractual legal relationship. This safety data sheet serves the user as reference information. Although this safety data sheet has been drawn up with great care, no guarantee for data accuracy, and no liability for the consequences of printing, typeset or transcription errors can be accepted. The existing laws, regulations and rule systems, including those not mentioned in this data sheet, must be complied with by the recipient of our products under their own responsibility.