

SENOPLAST Klepsch & Co GmbH,

A-5721 Piesendorf, Company:

Austria

senosan AM 1700 X **Page**: 1/7 Trade Name:

Date: 15.06.10

1. Identification of the substance/preparation and the company/undertaking

1.1 <u>Identification of the substance:</u>

Coextruded ABS/PMMA sheets with a special sealing based on PDMS (Polydimethylsiloxan)

1.2

SENOPLAST Klepsch & Co GmbH Wilhelm-Klepsch-Str. 1, 5721 Piesendorf Austria

Emergency telephone number: 0043 6549 7444-0 1.3

Composition/Information on ingredients: 2.

> **Chemical Characterisation:** top layer: PMMA

> > main layer: ABS

ABS: acrylonitrile-styrene-copolymer-butadiene-rubber-modified Composition:

CAS-Nr. 009003-56-9

PMMA: mixture of polymers on the basis of methyl methycrylate, n-butadiene

acrylate and styrene

Physical State: Solid

Colour: various colours Odour: odourless

Hazardous ingredients:

Hazardous identification: 3.

This product is not hazardous according to EC criteria.

3.1 **Hazardous Decomposition Products:** In case of thermal decomposition, traces of hydrocarbons (ethylbenzene,

styrene). Thermal decomposition products are carbonmonoxide, carbon-

dioxide and water

3.2 Hazardous reactions: With oxidising agents.

3.3 Avoid excessive temperatures. At temperatures above 300°C, decomposition of the Other data:

polymer starts under releasing of decomposition products.









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4. First aid measures:

4.1 <u>After spilling, leakage, leaving of gas:</u> Sweep up and deposit properly.

First aid: Never give fluids or induce vomiting if patient is unconscious or is having

convulsions.

4.2 Other data:

<u>Inhalation:</u> in a solid state are no noxious effects through a appropriate handling. After

inhalation of decomposition products: rest, fresh-air, medical attention

Skin contact: Wash off in the shower or keep under running water; no noxious effects on this way

of intake, After contact with molten material keep under cold running water. Do not

peel off.

Eye contact: Irrigate immediately with water for at least 5 minutes. Mechanical irritation of the

cornea only.

Swallowing: Material is not expected to be absorbed from the digestive system. No noxious

effects on this way of intake

Specific features at place of work:

5. Fire-fighting measures:

<u>Suitable extinguishing media</u>: Water or water fog, foam, alcohol resistant foam, carbon dioxide

Unsuitable extinguishing media: hard water spray

Releasing products: Carbon dioxide, H₂O vapour

Specific hazards: Thermal composition and burning release oxides of carbon and steam.

In small quantities, the emission of carbon monoxide, monomers and traces of

cyan-hydrogen are possible. Toxic fumes are released in fire situations

First aid:

If irritations through fumes in thermal processing: rest, fresh air, symptomatic

medical treatment

<u>Specific protective equipment</u>: In case of burning use a self- contained breathing apparatus, fire prevention

Other data: Burned material and contaminated extinguishing media is to be deposited

properly. Soak carefully with water to avoid a renewed ignition.

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6. Accidental release measures:

Methods for cleaning up (granules/regrind):

On cause of slid danger pick running off granules on solid ground immediately mechanically up. Or guard against with a cordon.

7. Handling and Storage:

7.1 Storage: Store in a cool, dry place away from direct sunlight. Avoid heat and wetness, also

extreme temperature differences (because of condensed moisture). Avoid solar radiation. Storage silos must be grounded to prevent static charge. Use suitable dust filter to avoid

emission. Avoid dust formation.

Handling: Avoid breathing dust. Sensible and careful handling of the product is advisable.

With some procedures, local extraction may be required, e.g. to avoid irritation caused by

dust, resulting from grinding and swarf.

<u>Inhalation protection:</u> Follow industrial practice as far as organisation and hygiene at the workplace is

concerned. From handling and/or storage developed dust can become explosive.

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Make sure that machines are ventilated enough. Reduce dust concentration to a minimum

Breathing protection: When dust formation use admitted particle filter (DIN 3181)

Eye protection: Use safety goggles

Skin protection: Wear overall with long sleeves

Hand protection:

Others: Wash hands before breaks or end of the workday









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8. Exposure controls/Personal protection

8.1 Other data for the organisation of technical constructions:

8.2 Ingredients with workplace exposure limits (PMMA):

During processing of the sheets, the following ingredients can be released

Methylmethacrylat 80-62-6

MAC 1994 210 mg/m³ 50 ml/m³

n-Butylacrylat 141-32-2

MAC 1994 55 mg/m³ 10 ml/m³

Styrene 100-42-5

MAC 1996 85 mg/m³ 20 ml/m³

Polydimethylsiloxan 63148-62-9

MAC: 10mg/m³

Personal protection equipment

<u>Ventilation</u>: Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

Respiratory protection: If breathable dust is formed. Filter P1 (for solid particles) (DIN 3181)

Eye protection: Use safety goggles.

Skin protection: Wear overall with long sleeves.

Hand protection: Wear gloves to prevent mechanical injuries

Other data:







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Physical and protective information:

Figure: foils or sheets (regrinds) Colour: depends on specific coloration

Odour: none

ABS PMMA

Melting point/range: n. a. n a Boiling point: n. a. n.a.

Density: 1.05 appr. 1,17 (at 25°C) g/cm3

Steam pressure: n. a. n. a. Viscosity: n.a. n. a. Water solubility: not soluble not soluble

Solubility with other factors Soluble with esters, ketones, and chloried carbonhydroxides

pH-Factor: n.a. n.a. Flash Point: > 330 °C n. a. Ignition temperature: > 400 °C > 450 °C

Explosion Limits: With dusted and organic products is the explosion possible

Thermal Decomposition: > 300 °C > 300 °C

10. Stability and Reactivity

10.1 Chemical stability: Stable under normal storage and handling conditions; see section 7, Handling and

Storage

10.2 Avoid excessive heating. Thermal decomposition starts at 300°C. Processed at Conditions to avoid:

high temperatures, the material may generate vapour levels sufficient to cause eye

and respiratory irritation.

10.3 Products to avoid: strong oxidising agents

10.4 Hazardous decomposition products: Fumes released during processing may include hydrocarbons (e.g. styrene,

> ethylbenzene) and traces of acrylonitrile. Measurements has shown that PDMS split off small quantities of Formaldehyd by reaching temperatures above 150°C, however quanties of the PDMS are very small (<0,1g/m²) and the PDMS is not

bonded in a chemical way on the PMMA surface.









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11. **Toxicological information:**

Oral toxicology is probably very less, physiological inactive

Swallowing in form of pellets can cause constipation

Solid matter or dust cause injuries of the cornea on account of mechanical effects

Skin contact:

Injuries only on account of mechanical effects. Absorption on account of physical properties not possible

Inhalation:

At room temperature, exposure to vapours is unlikely due to physical properties; higher temperatures may generate vapour levels sufficient to cause irritation and other effects.

Dust may cause irritation to upper respiratory tract (nose and throat)

Ecological information: 12.

Elimination information:

Behaviourism in environment

In the aquatic environment, this product should not present problems because of extremely low solubility Mobility:

On account of the product's consistence is an environmental distribution improbably

Biodegradability:

In the soil compartment, material is inherently very difficult to degrade.

13. Disposal considerations:

Disposal of product: All efforts should be made to recycle the product. The guidelines of this data sheet should therefore be followed. Clean, unused materiel can be disposed or be sent to a re-user. By-products and intermediate-products can be recycled. Production waste is to be deposited properly e.g on an approved waste site, or it can be burned in approved site according to local regulations.

Waste code number: 57202 EWC waste code number: 07 02 99











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14. Transport information:

Labelling according to EEC regulations is not required.

15. Regulatory information:

15.1 EG classification:

15.2 National regulations - Germany: Water Endangering Class: not water endangering WGK 0

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VwVws, addendum 1, number: 766

Other information: 16.

Telephonic further enquiry when claim: 0043 6549 7444

Labelling according to EEC regulations not required

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.

91/155EWG See for complete wording in the regarding standard





