

Safety data sheet

STYROLUX* 3G 46 CRYSTAL CLEAR

Revision date : 2006/06/14
Version: 1.0

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(30269296/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company

BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Composition/information on ingredients

CAS Number

9003-55-8

Content (W/W)

Chemical name

Polystyrene with 1,3-butadiene polymer

3. Hazard identification

Emergency overview

CAN CAUSE THERMAL BURNS.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) particulate respirator.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

Irritation:

Frequent and prolonged contact can lead to skin irritation.

Sensitization:

No data was available concerning sensitizing properties. The chemical structure does not suggest such an effect.

Repeated dose toxicity:

Product poses a low hazard under typical manufacturing and use conditions.

Medical conditions aggravated by overexposure:

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Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

Potential environmental effects

Aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected.

Terrestrial toxicity:

No data available concerning terrestrial toxicity.

4. First-aid measures

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If difficulties occur: Seek medical attention.

If on skin:

Seek medical assistance for removal of adhering material.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek immediate medical attention.

If swallowed:

No hazards anticipated.

Note to physician

Treatment: Treat according to the symptoms under clinical conditions.

5. Fire-fighting measures

Flash point: > 550 °F
Autoignition: > 400 °C (DIN 51794)

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Hazards during fire-fighting:

carbon dioxide, carbon monoxide,
The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

When large quantities of solid substance/product are involved, melting may occur, in which condition, application of water may cause extensive scattering of molten material.

6. Accidental release measures

Personal precautions:

Avoid inhalation. Sources of ignition should be kept well clear.

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Cleanup:

After decontamination, spill area can be washed with water.

For large amounts: Sweep/shovel up. Vacuum up spilled product.

Further information:

High risk of slipping due to leakage/spillage of product.

7. Handling and storage

Handling

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Provide exhaust ventilation. When the product is ground (chopped), dust explosion regulations should be noted.

Storage

General advice:

Keep container tightly closed and dry; store in a cool place. Avoid direct sunlight.

Storage incompatibility:

General: Segregate from strong oxidizing agents.

Storage stability:

Avoid prolonged storage at high temperatures.

8. Exposure controls and personal protection

Advice on system design:

Provide exhaust ventilation at sources when processing molten product. Provide local exhaust ventilation to control dusts/vapours.

Personal protective equipment

Respiratory protection:

Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided. Wear respiratory protection if ventilation is inadequate.

Hand protection:

Use additional heat protection gloves when handling hot molten masses (EN 407), e.g. of textile or leather.

Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

Eye protection:

Safety glasses with side-shields. Wear splash goggles to protect from hot molten substance/product.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

General safety and hygiene measures:

Avoid contact of molten material with skin. Avoid inhalation of dusts/mists/vapours. Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: pellets

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Odour:	faint specific odour	
Colour:	colourless, clear	
pH value:	7	
softening temperature:	50 - 90 °C	(DIN/EN/ISO 306)
Bulk density:	approx. 640 kg/m ³	(20 °C, 1 bar) (DIN 53466)
Solubility in water:		insoluble
Miscibility with water:		immiscible

10. Stability and reactivity

Conditions to avoid:

Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:

chlorinated hydrocarbons, aromatic solvents

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: monomers, oxides, gases/vapours, hydrocarbons, cyclic low molecular weight oligomers, Gaseous products of degradation can be given off if the product is greatly overheated.

Thermal decomposition:

approx. 300 °C

To avoid thermal decomposition, do not overheat.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Practically nontoxic.

Inhalation:

Practically nontoxic.

Dermal:

Practically nontoxic.

Skin irritation:

Prolonged contact with the product can result in skin irritation.

Eye irritation :

Similar findings as for skin apply to eyes.

Sensitization:

No data available concerning sensitizing effects.

Chronic toxicity

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Other information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

12. Ecological information

Environmental fate and transport

Biodegradation:

Evaluation: No data available concerning biodegradation and elimination.

Environmental toxicity

Other ecotoxicological advice:

No data can be given due to the product's insolubility in water

13. Disposal considerations

Waste disposal of substance:

This product is not regulated by RCRA.

This product is not regulated by CERCLA ('Superfund').

Dispose of in accordance with national, state and local regulations.

Do not discharge into waterways or sewer systems without proper authorization.

Container disposal:

Dispose of in accordance with national, state and local regulations.

14. Transport information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US

released / listed

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SARA hazard categories (EPCRA 311/312): Not hazardous

16. Other information

HMIS III rating

Health: 1 Flammability: 0 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information

Prod_Reg@basf.com
289-360-6071

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In addition to the information given in the safety data sheet we refer to the product specific 'Technical Information'.

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