



ThermoShift™

Safety data sheet

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

Date / Revised: 12.11.2009 Version: 1.0

Product: **ThermoShift**

(30039793/SDS_GEN_EU/EN)

1. Substance/preparation and company identification

ThermoShift

Use: Polymer

Company:

Phantom Plastics LLC

1821 Rambling Rose Lane

Hattiesburg, MS, 39402, USA

Telephone: +1 601 466 8342

E-mail address: chris@phantomplastics.com

Emergency information:

Telephone: +1 601 466 8342

2. Hazard identification

Danger of burns while handling the hot product.

3. Composition/information on ingredients

Chemical nature

2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,3-butadiene, ethenylbenzene and 2-propenenitrile

CAS Number: 9010-94-0

4. First-aid measures

If inhaled:

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

On skin contact:

Areas affected by molten material should be quickly placed under cold running water. Burns caused by molten material require hospital treatment.

On contact with 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.

On ingestion:

Rinse mouth and then drink plenty of water. If difficulties occur: Seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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5. Fire-fighting measures

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Specific hazards:

carbon dioxide, carbon monoxide, hydrogen cyanide

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

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

Methods for cleaning up or taking up:

Sweep/shovel up. Avoid raising dust. Ensure adequate ventilation.

Additional information: High risk of slipping due to leakage/spillage of product.

7. Handling and storage

Handling

Processing machines must be fitted with local exhaust ventilation. When working on exhaust systems special safety precautions must be taken, because dangerous substances can accumulate in the residue of the exhaust system. Handle in accordance with good industrial hygiene and safety practice.

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

Further information on storage conditions: Protect against moisture. Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure controls and personal protection

Components with workplace control parameters

Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

100-42-5: styrene

80-62-6: methyl methacrylate

107-13-1: acrylonitrile

106-99-0: butadiene

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Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

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

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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: granules

Colour: Colourless.

Odour: faint specific odour

softening temperature: > 100 °C (DIN EN ISO 306)

Boiling range:

The substance / product
decomposes therefore not
determined.

Ignition temperature: > 400 °C (DIN 51794)

Self-ignition temperature:

not self-igniting

Fire promoting properties: not fire-propagating

Vapour pressure:

Not applicable

Density: approx. 1.08 g/cm³

(20 °C, 1 bar)

(DIN 53479)

Bulk density: approx. 600 kg/m³

(20 °C, 1 bar)

(DIN 53466)

Solubility in water: insoluble

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10. Stability and reactivity

Conditions to avoid:

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

Thermal decomposition: 300 °C

To avoid thermal decomposition, do not overheat.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

The product is chemically stable.

Hazardous decomposition products:

hydrogen cyanide

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

11. Toxicological information

Acute toxicity

Assessment of acute toxicity:

not applicable

Irritation

Assessment of irritating effects:

No data available concerning irritating effects.

Repeated dose toxicity

Information on: Traces of styrene (Tox Statements NAFTA)

Information on: Styrene, acrylonitrile, butyl acrylate, butadiene (Tox Statements NAFTA)-----

Other relevant toxicity 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

Ecotoxicity

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected. The product has not been tested. The statement has been derived from the structure of the product.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria). The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants. The product has not been tested. The statement has been derived from the structure of the product.

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Bioaccumulation potential

Bioaccumulation potential:

The product will not be readily bioavailable due to its consistency and insolubility in water.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be recycled.

14. Transport information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADNR

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

Regulations of the European union (Labeling) / National legislation/Regulations

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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