



Material Safety Data Sheet

PDBS-80

Version: 1.0

Revision Date: 07/31/2012

Print Date: 12/12/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *PDBS-80*

Molecular formula: $(C_8H(8-X)BrX)_Y$

Product Use Description: Fire retardant

Synonyms: Polydibromostyrene, Brominated styrene polymer

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
(US) +1 866-430-2775

07/31/2012

MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form: pellets Colour: amber Odour: slight

Hazard Summary : No hazards resulting from the material as supplied.

OSHA Hazards : NO OSHA HAZARDS

Potential Health Effects

Symptoms of Overexposure : None known.



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Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

No ingredients are hazardous according to OSHA criteria.

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : Remove to fresh air.
Consult a physician after significant exposure.
- Skin contact : Wash off with soap and plenty of water.
If skin irritation persists, call a physician.
- Eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
Get medical attention.
- Ingestion : If conscious, make the victim drink the following:
Drink 1 or 2 glasses of water.
Get medical attention immediately.

Notes to physician

- Symptoms : None known.
- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

- Flash point : Remarks: not applicable
- Lower explosion limit : Remarks: no data available
- Upper explosion limit : Remarks: no data available

Fire fighting

- Suitable extinguishing media : Water mist



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Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry sand

Further information : The product itself does not burn.

Protective equipment and precautions for firefighters

Specific hazards during firefighting : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to health.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.

Environmental precautions : Should not be released into the environment.

Methods for containment / Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.
Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Use only with adequate ventilation.
Avoid dust formation.
Avoid breathing dust.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
Other data : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.

Engineering measures

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Effective exhaust ventilation system

Personal protective equipment



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Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles
Hand protection	: Neoprene gloves
Skin and body protection	: impervious clothing
Respiratory protection	: In the case of dust or aerosol formation use respirator with an approved filter.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	: pellets
Colour	: amber
Odour	: slight

Safety data

Flash point	: Note: not applicable
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Vapour pressure	: no data available
Bulk density	: 1,110 kg/m3
Specific Gravity	: 1.9 at
Water solubility	: Note: insoluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Remarks: Heat, flames and sparks. Contamination
Materials to avoid	: Remarks: Strong oxidizing agents
Hazardous decomposition products	: Note: Hydrogen bromide Carbon oxides
Hazardous reactions	: Hazardous polymerisation does not occur.



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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 5,000 mg/kg
Species: rat

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity :
Remarks: Not classified due to lack of data.

Skin irritation : Remarks: Not classified due to lack of data.

Eye irritation : Remarks: Not classified due to lack of data.

Sensitisation : Remarks: Not classified due to lack of data.

Aspiration toxicity : No aspiration toxicity classification

Toxicology Assessment

CMR effects : Carcinogenicity:
Not classified due to lack of data.
Mutagenicity:
Not classified due to lack of data.
Reproductive toxicity:
Not classified due to lack of data.

Further information : The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish :
Remarks:
no data available

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
no data available

Mobility : Remarks:



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no data available

Biodegradability : Result: no data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Additional ecological information : There is no data available for this product.
This product has no known eco-toxicological effects.
Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : In accordance with local and national regulations.
Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

SARA 311/312 Hazards : No SARA Hazards

SARA 302 Reportable Quantity :



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Pennsylvania Right To Know Components

: Benzene, ethenyl-, homopolymer, brominated 88497-56-7

toluene 108-88-3 OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z.

ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances

NFPA49 national fire protection association 'hazardous chemicals data' substances (NFPA 49).

NFPA325m national fire protection association 'fire hazard properties of flammable liquids, gasses, volatile solids' substances (NFPA 325 m).

Volatile Organic Substances (VOCs). Listed in EPA National Drinking Water Regulations tables 1 and 6, 40 CFR parts 141 and 142, 52 FR 25690 (7/8/87).

CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency release notification under SARA Title III.

Toxic chemical release substances. 52 fr 21152 (6/4/87).

Subject to SARA Title III.

New Jersey Right To Know Components

: Benzene, ethenyl-, homopolymer, brominated 88497-56-7

toluene 108-88-3 OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z.

ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances

NFPA49 national fire protection association 'hazardous chemicals data' substances (NFPA 49).

NFPA325m national fire protection association 'fire hazard properties of flammable liquids, gasses, volatile solids' substances (NFPA 325 m).

Volatile Organic Substances (VOCs). Listed in EPA National Drinking Water Regulations tables 1 and 6, 40 CFR parts 141 and 142, 52 FR 25690 (7/8/87).

CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency release notification under SARA Title III.

Toxic chemical release substances. 52 fr 21152 (6/4/87).

Subject to SARA Title III.

California Prop. 65 Components

: WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene

108-88-3 toluene

The components of this product are reported in the following inventories:

US.TSCA

On TSCA Inventory

DSL

All components of this product are on the Canadian DSL list.



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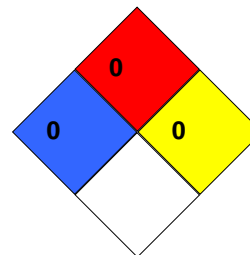
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AICS	On the inventory, or in compliance with the inventory
NZIoC	Not in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA Classification : Health hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information



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relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.