
MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 1/8

1. Product and company identification

1.1 Product identifier

Product name: PHOSLITE B85AX

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

General use: Flame retardant

1.3 Details of the supplier of the safety data sheet

Producer: ITALMATCH CHEMICALS S.p.A.

Headquarter: via Pietro Chiesa, 7/13 (piano 8°)
Torri Piane - San Benigno
16149 Genova - Italy
Tel: +39/010 - 64208.1
Fax: +39/010 - 4695296
E-mail: sales.dpt@italmatch.it

Plant: via S.Tommaso, 13
06049 Spoleto (PG) - Italy
Tel: +39/0743 - 20191
Fax.: +39/0743 - 45841 E-mail: factory@italmatch.it

1.4. Emergency telephone number

Switchboard/safety number: +39/0743 - 20191
Fax.: +39/0743 - 45841 E-mail: hse.spoleto@italmatch.it

2. Hazards Identification

2.1 Classification of the mixture

Directive 1999/45/CE:

Xi - Irritant

R 43 - May cause sensitisation by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements



MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 2/8

Xi

Xi - Irritant

Risk phrases: R 43 - May cause sensitisation by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S 7 - Keep container tightly closed
S 15 - Keep away from heat
S 24 - Avoid contact with skin
S 61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

2.3. Other hazards

The product may produce explosive mixture with strong oxidizing agents.

In case of fire combustion off-gases may contain phosphorus pentoxide (corrosive).

The product is not yet fully tested, therefore handle with care and always in accordance with good working practice.

3. Composition / information on ingredients**3.1. Substances**

N.A.

3.2. Mixtures

PHOSLITE IP-A (about 85%) (Aluminium hypophosphite - CAS 7784-22-7)

Classification Directive 67/548/CE:

F- Highly flammable; R 11 - Highly flammable; R 52/53 - Harmful to aquatic organism. May cause long term effect in the aquatic environment

Classification Regulation 1272/08/CE:

Flammable solids: Cat 1; H228 - Flammable solid

Hazardous to the aquatic environment: Cat.3; H412- Harmful to aquatic life with long lasting effects

PX-200 (mixture) (about 15%)

Components of PX-200:

Name	%	CAS No.
(1)Resorcinol bis(di 2,6-dimethylphenyl phosphate)	95-97	139189-30-3
(2)Resorcinol bis(2,6-dimethylphenyl)phosphate	0.5-1.0	Mixture
(3)Tris(2,6- dimethylphenyl)phosphate	1.0-3.0	121-06-2
(4)Oligomers of resorcinol 2,6-dimethylphenol phosphate	0.5-1.0	Mixture

Classification Directive 67/548/CE:

MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 3/8

Xi - Irritant; R43 - May cause sensitisation by skin contact.
Classification Regulation 1272/08/CE:
Skin sens. 1; H317 - May cause an allergic skin reaction.

4. First Aid Measures

4.1. Description of first aid measures

Inhalation:	In case of product powder inhalation bring the exposed person to fresh air. If symptoms are present (i.e.: irritation, cough, breathing difficulties) get medical check up. In case of inhalation of combustion or decomposition fumes, bring the exposed person to fresh air and get medical aid immediately.
Skin contact:	The product may cause sensitisation by skin contact. Flush skin with water and soap. Remove contaminated clothing and shoes, wash them before reuse. If skin is damaged, seek medical attention. In case of skin burns put the part in water and contact immediately a medical center.
Eye contact:	Flush immediately eyes for at least 15 minutes with plenty of water occasionally lifting the lower and upper lids. Get medical attention immediately.
Ingestion:	Do not induce vomiting. Remove product from the mouth. Keep the patient at rest and call a physician immediately

4.2. Most important symptoms and effects, both acute and delayed

N.A.

4.3. Indication of any immediate medical attention and special treatment needed

N.A.

5. Fire Fighting Measures

5.1. Extinguishing media

Foam, water spray, sand, earth, mattresses or sheets of glass/mineral fibres, dry chemical powder, carbon dioxide. Use water to fresh containers not involved in fire.

Do not use: Water in jet may cause dust clouds and larger fires

MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 4/8

5.2. Special hazards arising from the substance or mixture

Combustion off-gases may contain phosphorus pentoxide and phosphoric acid (corrosives). Avoid to breath combustion off-gases.

5.3. Advice for firefighters

Protective equipment: Full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Do not breathe product powder and avoid contact with skin and eyes. Wear flame retardant clothing, neoprene or PVC gloves, safety goggles, safety shoes. Avoid friction on the released product and keep away from ignition sources

6.1.2. For emergency responders

Do not breathe product powder and avoid contact with skin and eyes. Wear flame retardant clothing, neoprene or PVC gloves, safety goggles, safety shoes. Avoid friction on the released product and keep away from ignition sources

6.2. Environmental precautions

Prevent dispersion on soil and in water. Prevent from spreading or entering into drains, ditches or rivers by using appropriate barriers

6.3. Methods and material for containment and cleaning up

Collect material for controlled re-use or waste disposal, using only antistatic tools.

6.4. Reference to other sections

7. Handling and Storage

7.1. Precautions for safe handling

Avoid to produce and accumulate dust.

Beware of static electricity and discharges: use effective ground connections for equipment and containers, use plastic (antistatic) or wood tools. Keep away from ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original tightly closed containers in cool and dry conditions, away from oxidizing agents and ignition sources.

7.3. Specific end use(s)

N.A.

MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 5/8

8. Exposure Controls / Personal Protection

8.1. Control parameters

Standard occupational exposure: None established for Phoslite B85AX.

8.2. Exposure controls

Personal protection: Dust mask, safety goggles for chemicals, neoprene or PVC gloves, flame retardant clothing and safety shoes. Keep dust under control with local suction systems.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Form:	Powder
Colour:	White
Odour:	Slight
Auto-ignition temperature:	na (for the component Aluminium Phosphinate: 275°C, for the component PX-200:>400°C)
Bulk density:	1000 kg/m ³
Solubility (water, 20°C):	practically insoluble (< 1 g./100 cc)

9.2. Other information

N.A.

10. Stability / Reactivity

10.1. Reactivity

N.A.

10.2. Chemical stability

Stable if maintained in the original packing and under ordinary storage conditions

10.3. Possibility of hazardous reactions

Combustion off-gases may contain phosphorus pentoxide and phosphoric acid (corrosives)

10.4. Conditions to avoid

Avoid dust production/accumulation.

10.5. Incompatible materials

Strong oxidizing agents. Strong alkalis

MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 6/8

10.6. Hazardous decomposition products

Combustion off-gases may contain phosphorus pentoxide and phosphoric acid (corrosives)

11. Toxicological Information

11.1. Information on toxicological effects

acute toxicity:

Not available for PhosliteB 85 AX;
for the component Aluminium Phosphinate:
LD₅₀ (oral, rat) > 2000 mg/kg body weight.
For the component PX 200:
LD₅₀ (oral, rat) > 2000 mg/kg body weight.

skin corrosion/irritation:

Not available for PhosliteB 85 AX
For the component Aluminium Phosphinate:
contact with skin: no irritation (rabbit, 500 mg/4 hour)
The component PX 200:
LD₅₀ (dermal, rat) > 2000 mg/kg body weight.

serious eye damage/irritation:

N.A.

respiratory or skin sensitisation:

The component PX-200 is a skin sensitiser (4/10 sensitisation rate in a Magnusson and Kligman maximization test)

germ cell mutagenicity:

The components (Aluminium Phosphinate and PX-200) are not mutagenic.

carcinogenicity:

N.A.

reproductive toxicity:

N.A.

STOT-single exposure:

N.A.

STOT-repeated exposure:

N.A.

aspiration hazard:

N.A.

12. Ecological Information

12.1. Toxicity

For the component Aluminium Phosphinate:
Daphnia magna, IC₅₀, 48 hours > 100 ppm

MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 7/8

Zebra fish (Danio rerio), LC50, 96 hours >100 ppm

Green algae, 72 hours: 10 mg/l < EC50 ≤ 100 mg/l

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

N.A.

12.6. Other adverse effects

N.A.

13. Disposal Considerations

13.1. Waste treatment methods

Waste disposal of the product and its containers must be done according to national or local regulation.

14. Transport Information

Not regulated under international transport regulations (ADR/RID, IMDG-IMO, ICAO/IATA).

14.1. UN number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N.A.

15. Regulatory Information

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

Directive 67/548/CE

Directive 99/45/CE

MATERIAL SAFETY DATA SHEET

Date prepared: 17.11.10
Supersedes date: 03.05.10
Page 8/8

Regulation 1907/2006/CE
Regulation 1272/2008/CE
D.Lgs 81/2008

15.2. Chemical safety assessment

N.A.

16. Other information

This product must be stored, handled and used according to the existing industrial practice and legislation.

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only.

It should not therefore be construed as guaranteeing any specific property of the product.

Meaning of symbols and R-phrases

F – Flammable

R11 - Highly flammable

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment