

Safety data sheet

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BASF India Ltd Safety data sheet

Date / Revised: 29.01.2011

Product: **Styrofan® ID 604 ap**

Version: 2.0

(30264319/SDS_GEN_IN/EN)

Date of print 07.06.2012

1. Substance/preparation and company identification

Styrofan® ID 604 ap

Company:

BASF India Ltd

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Bandra Kurla Complex, Mumbai – 400051, INDIA

Telephone: +91 22 6661-8000

Telefax number: +91 22 6758-2753

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Composition/information on ingredients

Chemical nature

Aqueous dispersion of a polymer based on: styrene, butadiene, acrylonitrile

Hazardous ingredients

a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)

Content (W/W): <= 50 PPM

CAS Number: 55965-84-9

INDEX-Number: 613-167-00-5

Hazard symbol(s): T, N

R-phrases: 23/24/25, 34, 43, 50/53

formaldehyde

Content (W/W): <= 0.1 %

CAS Number: 50-00-0

EC-Number: 200-001-8

INDEX-Number: 605-001-00-5

Hazard symbol(s): T

R-phrases: 23/24/25, 34, 40, 43

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

3. Hazard identification

No particular hazards known.

The product contains a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1) (CAS-No.:55965-84-9).
May produce an allergic reaction.

The product contains formaldehyde.
May produce an allergic reaction.

If the product adheres to skin, irritation may occur when it dries.

4. First-Aid Measures

General advice:

| Remove contaminated clothing.

If inhaled:

| Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

| Wash thoroughly with soap and water.

On contact with eyes:

| Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

| Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:

| Symptoms: No significant symptoms are expected due to the non-classification of the product.

| Hazards: No hazards anticipated.

| Treatment: No data available.

5. Fire-Fighting Measures

Suitable extinguishing media:

| water spray, dry powder, foam, carbon dioxide

Specific hazards:

| No particular hazards known.

Further information:

- Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
- Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

6. Accidental Release Measures

Personal precautions:

- Use personal protective clothing. Avoid contact with skin and eyes.

Methods for cleaning up or taking up:

- For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.
- For large amounts: Pump off product.
- For residues: Rinse away with water.

7. Handling and Storage

Handling

- Handle in accordance with good industrial hygiene and safety practice. After long storage, slight quantities of carbon monoxide may be formed. To our best knowledge, the occupational exposure limit (OEL) is not exceeded during use. Entering of tanks must only be performed after intensive cleaning and when it is ensured that residual vapours have been removed. Consideration of national laws and international standards for confined space entry should be taken in to account. In case of doubt, the concentration of Carbon monoxide must be determined.

Storage

- Further information on storage conditions: Store protected against freezing.

Protect from temperatures below: 0 °C

The packed product is destroyed at low temperatures or by frost.

Protect from temperatures above: 60 °C

The packed product must be protected against exceeding the indicated temperature.

8. Exposure controls and personal protection

Components with workplace control parameters

The release and quantity of the stated substance is dependent on the processing conditions.

formaldehyde, 50-00-0;

CLV 0.3 ppm (ACGIHTLV)

TWA value 1.5 mg/m³ ; 1.0 ppm (OEL (IN))

STEL value 3 mg/m³ ; 2 ppm (OEL (IN))

Personal protective equipment

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
 Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

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

General safety and hygiene measures:

Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

9. Physical and Chemical Properties

Form:	liquid
Colour:	white
Odour:	faint odour

pH value:	7.5 - 9.5 (25 °C)
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Information on: water solidification temperature:	0 °C
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Information on: water boiling temperature:	100 °C (1,000 hPa)
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Flash point:	not applicable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable

Information on: water Vapour pressure:	23 mbar (20 °C)
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Density:	approx. 1.02 g/cm ³ (20 °C)
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Miscibility with water:	miscible
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Viscosity, dynamic:	25 - 65 mPa.s	(DIN EN ISO 2555)
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Solids content: 39 - 41 % (DIN EN ISO 3251)

Other Information:

| Range of particle size: < 0,1 µm - 10 µm

10. Stability and Reactivity

Conditions to avoid:

| Avoid extreme temperatures.

| Thermal decomposition: No decomposition if used correctly.

Substances to avoid:

| No substances known that should be avoided.

Hazardous reactions:

| No hazardous reactions when stored and handled according to instructions. After long storage, slight quantities of carbon monoxide may be formed.

| No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

| Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from products of a similar structure or composition.

| LD50 rat (oral): > 2,000 - 10,000 mg/kg

Irritation

Assessment of irritating effects:

| If the product adheres to skin, irritation may occur when it dries.

| Not irritating to the eyes. Not irritating to the skin. The product has not been tested. The statement has been derived from products of a similar structure or composition.

| Primary skin irritation rabbit: non-irritant (OECD Guideline 404)

| Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)

Sensitization

Assessment of sensitization:

| Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Genetic toxicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Carcinogenicity**Assessment of carcinogenicity:**

No data available concerning carcinogenic effects.

Reproductive toxicity**Assessment of reproduction toxicity:**

No data available concerning reproduction toxicity.

Developmental toxicity**Assessment of teratogenicity:**

No data available concerning teratogenic effects.

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. The statement was derived from products of similar composition.

The product contains a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1) (CAS-No.:55965-84-9). May produce an allergic reaction.

The product contains formaldehyde. May produce an allergic reaction.

12. Ecological Information**Ecotoxicity****Toxicity to fish:**

LC50 (96 h) > 100 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) > 100 mg/l, *Scenedesmus subspicatus* (OECD Guideline 201)
Nominal concentration.

Microorganisms/Effect on activated sludge:

EC20 (0.5 h) > 100 mg/l, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C)

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Mobility

Assessment transport between environmental compartments:

| No data available.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

| The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

Elimination information:

| > 70 % DOC reduction (OECD 302B; ISO 9888; 88/302/EEC, part C) Easily eliminated from water.

Bioaccumulation potential

Bioaccumulation potential:

| Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

Other adverse effects

Adsorbable organically-bound halogen (AOX):

| No data available.

Additional information

Other ecotoxicological advice:

| Do not release untreated into natural waters. At the present state of knowledge, no negative ecological effects are expected.

| Ecological data are determined by analogy.

13. Disposal Considerations

| Must be disposed of or incinerated in accordance with local regulations.

| A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.

| Observe national and local legal requirements.

14. Transport Information

Domestic transport:

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

15. Regulatory Information

Classification not required

Other regulations

16. Other Information

| Recommended use: Raw material, for industrial use only

| Any other intended applications should be discussed with the manufacturer.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

T	Toxic.
N	Dangerous for the environment.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
34	Causes burns.
43	May cause sensitization by skin contact.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
40	Limited evidence of a carcinogenic effect.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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.