

# Safety data sheet

Page: 1/10

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

Date / Revised: 20.10.2009

Version: 3.0

Product: **MSEAL 698 PART B GRY POL**

(30472786/SDS\_GEN\_EU/EN)

Date of print 27.12.2010

## 1. Substance/preparation and company identification

### MSEAL 698 PART B GRY POL

Company:

BASF South East Asia Pte Ltd.

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International emergency number:

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## 2. Hazard identification

**According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures**

Label elements and precautionary statement:

Pictogram:



Signal Word:

Danger

Hazard Statement:

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Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

**Precautionary Statements (Prevention):**

Avoid release to the environment. Wear protective gloves/clothing and eye/face protection.

**Precautionary Statements (Response):**

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention.

**Precautionary Statements (Disposal):**

Dispose of contents/container to hazardous or special waste collection point.

**Classification of the substance and mixture:**

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 1

Skin sensitizer: Cat. 1

Chronic hazards to the aquatic environment: Cat. 2

**Possible Hazards**

Irritating to skin.

Risk of serious damage to eyes.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. Composition/information on ingredients**Chemical nature

Preparation based on: polyol, catalyst, additives

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

## 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine

|                                 |                           |
|---------------------------------|---------------------------|
| Content (W/W): >= 15 % - < 25 % | Acute tox.: Cat. 4 (oral) |
| CAS Number: 106264-79-3         | Skin sens.: Cat. 1        |
| EC-Number: 403-240-8            | Eco chronic: Cat. 1       |
| INDEX-Number: 612-113-00-8      | Eco acute: Cat. 1         |

## | Glyceryl poly(oxypropylene)triamine

|                        |                         |
|------------------------|-------------------------|
| Content (W/W): >= 25 % | Skin corr./irr.: Cat. 2 |
| CAS Number: 64852-22-8 | Eye dam./irr.: Cat. 1   |
|                        | Eco chronic: Cat. 3     |

Hazardous ingredients

according to Directive 1999/45/EC

6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine  
Content (W/W):  $\geq 15\%$  -  $< 25\%$   
CAS Number: 106264-79-3  
EC-Number: 403-240-8  
INDEX-Number: 612-113-00-8  
Hazard symbol(s): Xn, N  
R-phrase(s): 22, 43, 50/53

Glyceryl poly(oxypropylene)triamine  
Content (W/W):  $\geq 25\%$   
CAS Number: 64852-22-8  
Hazard symbol(s): Xi  
R-phrase(s): 38, 41, 52/53

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

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## 4. First-Aid Measures

### General advice:

Immediately remove contaminated clothing.

### If inhaled:

Keep patient calm, remove to fresh air. If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and 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:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

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## 5. Fire-Fighting Measures

### Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

### Specific hazards:

carbon monoxide, carbon dioxide, nitrogen oxides

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

### Special protective equipment:

Wear a self-contained breathing apparatus.

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Further information:

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

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Do not empty into drains. Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of contaminated material as prescribed.

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

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## 7. Handling and Storage

### Handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

No special precautions necessary.

### Storage

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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## 8. Exposure controls and personal protection

### Components with workplace control parameters

none

### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

**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

**Eye protection:**

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

**General safety and hygiene measures:**

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

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## 9. Physical and Chemical Properties

|                             |                                    |             |
|-----------------------------|------------------------------------|-------------|
| Form:                       | viscous                            |             |
| Colour:                     | grey                               |             |
| Odour:                      | amine-like                         |             |
| pH value:                   | 8 - 10<br>(20 °C)                  |             |
| solidification temperature: | < 0 °C                             |             |
| Boiling point:              | > 140 °C<br>(1,013 hPa)            |             |
| Flash point:                | > 110 °C                           | (DIN 51758) |
| Ignition temperature:       | > 250 °C                           |             |
| Vapour pressure:            | < 10 mbar<br>(20 °C)               |             |
| Density:                    | > 1.0 g/cm <sup>3</sup><br>(20 °C) |             |
| Solubility in water:        | partly soluble                     |             |

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## 10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:  
acids, oxidizing agents, isocyanates

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## 11. Toxicological Information

### Acute toxicity

**Assessment of acute toxicity:**

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

*Information on: 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine*

*Experimental/calculated data:*

*LD50 rat (oral): 1,515 mg/kg*

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**Irritation****Assessment of irritating effects:**

May cause severe damage to the eyes. Skin contact causes irritation.

*Information on: Glyceryl poly(oxypropylene)triamine*

*Experimental/calculated data:*

*Serious eyes damages/irritation: irreversible damage (HET-CAM test in vitro)*

*The product has not been tested. The statement has been derived from products of a similar structure and composition.*

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**Respiratory/Skin sensitization****Assessment of sensitization:**

Sensitization after skin contact possible.

*Information on: 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine*

*Assessment of sensitization:*

*May cause sensitization by skin contact.*

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**Germ cell mutagenicity****Assessment of mutagenicity:**

The chemical structure does not suggest a mutagenic effect.

**Carcinogenicity****Assessment of carcinogenicity:**

The chemical structure does not suggest a specific alert for such an effect.

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)****Assessment of repeated dose toxicity:**

Repeated dermal uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects. Repeated oral uptake of the substance did not cause substance-related effects.

**Other relevant toxicity information**

The product has not been tested. The statement has been derived from the properties of the individual components.

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

*Information on: 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine*

*Toxicity to fish:*

*LC50 (96 h) 16.9 mg/l, *Oncorhynchus mykiss**  
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*Information on: 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine*

*Aquatic invertebrates:*

*EC50 (48 h) 0.9 mg/l, other*  
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### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Poorly biodegradable.

Elimination information:

Poorly biodegradable.

### Other adverse effects

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

### Additional information

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

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## 13. Disposal Considerations

Incinerate in suitable incineration plant, observing local authority regulations.

Waste key:

07 02 08\* other still bottoms and reaction residues

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## 14. Transport Information

### Land transport

ADR

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains 3,5-DIMETHYLTHIO-2,4-TOLUENEDIAMINE)

RID

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains 3,5-DIMETHYLTHIO-2,4-TOLUENEDIAMINE)

### Inland waterway transport

ADNR

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains 3,5-DIMETHYLTHIO-2,4-TOLUENEDIAMINE)

### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains 3,5-DIMETHYLTHIO-2,4-TOLUENEDIAMINE)

### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM

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(contains 3,5-DIMETHYLTHIO-2,4-TOLUENEDIAMINE)

## 15. Regulatory Information

### Regulations of the European union (Labelling) / National legislation/Regulations

Directive 1999/45/EC ('Preparation Directive'):

Hazard symbol(s)

Xi Irritant.  
N Dangerous for the environment.

R-phrases(s)

R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitization by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Hazard determining component(s) for labelling: 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine

### Other regulations

## 16. Other Information

Recommended use: polyurethane component

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xn Harmful.  
N Dangerous for the environment.  
Xi Irritant.  
22 Harmful if swallowed.  
43 May cause sensitization by skin contact.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
38 Irritating to skin.  
41 Risk of serious damage to eyes.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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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.