

Safety data sheet

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

Date / Revised: 29.11.2010

Version: 6.0

Product: **MSEAL 678 PART B GRY POL**

(ID no. 30472776/SDS_GEN_EU/EN)

Date of print 27.12.2010

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

MSEAL 678 PART B GRY POL

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

Recommended use: polyurethane component

Details of the supplier of the safety data sheet

Company:

BASF South East Asia Pte Ltd.
7 Temasek Boulevard,
#35-01 Suntec Tower One, 038987,
SINGAPORE

Contact address:

BASF SE
67056 Ludwigshafen
GERMANY

Telephone: +49 621 60-0

E-mail address: global.info@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



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Signal Word:

Danger

Hazard Statement:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated oral exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements (Response):

P303 + P352	IF ON SKIN (on hair): Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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According to Directive 67/548/EEC or 1999/45/EC

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

Hazard symbol(s)

Xn	Harmful.
N	Dangerous for the environment.

R-phrase(s)

R41	Risk of serious damage to eyes.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(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: diethylmethylbenzenediamine

Classification of the substance or mixtureAccording to Regulation (EC) No 1272/2008 [CLP]

Serious eye damage/eye irritation: Cat. 1

Specific target organ toxicity following repeat exposure: Cat. 2 (oral)

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Skin corrosion/irritation: Cat. 2

Chronic hazards to the aquatic environment: Cat. 2

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Risk of serious damage to eyes.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

Other hazards

Assessment PBT / vPvB:

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

3. Composition/Information on Ingredients**Mixtures**Chemical nature

Preparation based on: polyol, catalyst, additives

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

(neodecanoato-O)phenylmercury

Content (W/W): $\geq 0.1\%$ - $< 1\%$

CAS Number: 26545-49-3

EC-Number: 247-783-7

Acute tox.: Cat. 3 (oral)

Skin corr./irr.: Cat. 1B

STOT rep.: Cat. 1 (oral)

STOT rep.: Cat. 1 (dermal)

Eco chronic: Cat. 1

Eco acute: Cat. 1

H301, H314, H372, H400, H410

Glyceryl poly(oxypropylene)triamine

Content (W/W): $\geq 10\%$ - $< 20\%$

CAS Number: 64852-22-8

Skin corr./irr.: Cat. 2

Eye dam./irr.: Cat. 1

Eco chronic: Cat. 3

H315, H318, H412

diethylmethylbenzenediamine

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Content (W/W): $\geq 20\%$ - $< 25\%$	Acute tox.: Cat. 4 (dermal)
CAS Number: 68479-98-1	Acute tox.: Cat. 4 (oral)
EC-Number: 270-877-4	Eye dam./irr.: Cat. 2
INDEX-Number: 612-130-00-0	STOT rep.: Cat. 2 (oral)
	Eco chronic: Cat. 1
	Eco acute: Cat. 1
	H302, H312, H319, H373, H400, H410

Hazardous ingredients

according to Directive 1999/45/EC

(neodecanoato-O)phenylmercury

Content (W/W): $\geq 0.1\%$ - $< 1\%$

CAS Number: 26545-49-3

EC-Number: 247-783-7

Hazard symbol(s): T, N

R-phrases: 25, 34, 48/24/25, 50/53

Glyceryl poly(oxypropylene)triamine

Content (W/W): $\geq 10\%$ - $< 20\%$

CAS Number: 64852-22-8

Hazard symbol(s): Xi

R-phrases: 38, 41, 52/53

diethylmethylbenzenediamine

Content (W/W): $\geq 20\%$ - $< 25\%$

CAS Number: 68479-98-1

EC-Number: 270-877-4

INDEX-Number: 612-130-00-0

Hazard symbol(s): Xn, N

R-phrases: 21/22, 36, 48/22, 50/53

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

4. First-Aid Measures

Description of first aid measures

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:

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

Most important symptoms and effects, both acute and delayed

| Symptoms: Eye irritation, skin irritation

| Hazards: Symptoms can appear later.

Indication of any immediate medical attention and special treatment needed

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

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam, carbon dioxide

Special hazards arising from the substance or mixture

carbon monoxide, carbon dioxide, diethylmethybenzenediamine, nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

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

High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

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

Methods and material for containment and cleaning 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.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

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Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

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

Suitable materials for containers: carbon steel (iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), tin (tinplate), Stainless steel 1.4301 (V2)

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

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

26545-49-3: (neodecanoato-O)phenylmercury

Exposure controls

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form: liquid

Colour: grey

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Odour:	amine-like	
Odour threshold:		
pH value:	not applicable 8 - 10 (20 °C)	
solidification temperature:	< 0 °C	
Boiling point:	> 140 °C (1,013 hPa)	
Flash point:	> 110 °C	(DIN 51758)
Flammability:	not applicable	
Ignition temperature:	> 250 °C	
Vapour pressure:	< 10 mbar (20 °C)	
Density:	> 1.0 g/cm ³ (20 °C)	
Solubility in water:	partly soluble	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	

Other information

10. Stability and Reactivity

Reactivity

| Corrosion to metals: No corrosive effect on metal.

Chemical stability

| The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

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

Conditions to avoid

| Temperature: < 0 °C

Incompatible materials

Substances to avoid:
acids, oxidizing agents, isocyanates

Hazardous decomposition products

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

11. Toxicological Information

Information on toxicological effects

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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: diethylmethylbenzenediamine**Experimental/calculated data:**LD50 rat (oral): 738 mg/kg (OECD Guideline 401)*

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:**Skin corrosion/irritation rabbit: Irritant. (Epiderm Corrosivity Test)**The product has not been tested. The statement has been derived from products of a similar structure or composition.*
-----*Information on: diethylmethylbenzenediamine**Experimental/calculated data:**Serious eye damage/irritation rabbit: Irritant.**Information on: Glyceryl poly(oxypropylene)triamine**Experimental/calculated data:**Serious eye damage/irritation rabbit: irreversible damage (HET-CAM test in vitro)**The product has not been tested. The statement has been derived from products of a similar structure or composition.*

Respiratory/Skin sensitization

Assessment of sensitization:

The chemical structure does not suggest a sensitizing effect.

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest such an effect.

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest such an effect.

Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest such an effect.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated oral exposure may affect certain organs. Repeated exposure to the substance by dermal administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

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

Information on: diethylmethylbenzenediamine

danger of serious health hazards by longer exposure (subchronic, rat, oral)

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

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

Information on: diethylmethylbenzenediamine

Toxicity to fish:

LC50 (48 h) 194 mg/l, Leuciscus idus (DIN 38412 Part 15)

Information on: diethylmethylbenzenediamine

Aquatic invertebrates:

EC50 (48 h) 0.5 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Information on: diethylmethylbenzenediamine

Microorganisms/Effect on activated sludge:

EC50 (16 h) 170 mg/l, Pseudomonas sp. (DIN 38412 Part 8)

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Poorly biodegradable.

Elimination information:

Poorly biodegradable.

Information on: diethylmethylbenzenediamine

Elimination information:

< 1.0 % (28 d) (OECD 301D; EEC 92/69, C.4-E) Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential:

| The product contains components with potential for bioaccumulation

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

| Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

| According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

Information on: diethylmethylbenzenediamine

| Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria..

Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

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.

13. Disposal Considerations

Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.

Waste key:

07 02 08[□] other still bottoms and reaction residues

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Contaminated packaging:

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

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 DIETHYLMETHYLBENZENEDIAMINE)

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 DIETHYLMETHYLBENZENEDIAMINE)

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 DIETHYLMETHYLBENZENEDIAMINE)

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 DIETHYLMETHYLBENZENEDIAMINE)

Air transport

IATA/ICAO

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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 DIETHYLMETHYLBENZENEDIAMINE)

15. Regulatory Information

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

Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines. Exposure scenarios for the mixture can not be provided at the moment because exposure scenarios are not yet available for all relevant substances due to registration timelines. For advice on essential measures see sections 7 and 8 of this safety data sheet.

16. Other Information

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

T	Toxic.
N	Dangerous for the environment.
Xi	Irritant.
Xn	Harmful.
25	Toxic if swallowed.
34	Causes burns.
48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
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.
21/22	Harmful in contact with skin and if swallowed.
36	Irritating to eyes.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated oral exposure.

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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.