

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 13.10.2014 Version: 8.0

Product: FLEXITY

(ID no. 30265259/SDS\_CPA\_GB/EN)

Date of print 15.10.2014

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

# **FLEXITY**

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

Relevant identified uses: crop protection product, fungicide

# 1.3. Details of the supplier of the safety data sheet

Company: BASF SE 67056 Ludwigshafen GERMANY Contact address:
BASF plc
PO Box 4, Earl Road, Cheadle Hulme,
Cheadle, Cheshire
SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222

E-mail address: product-safety-north@basf.com

## 1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

#### **SECTION 2: Hazards Identification**

## 2.1. Classification of the substance or mixture

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

Eye Dam./Irrit. 2 Aquatic Chronic 2

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

Possible Hazards:

May cause sensitization by skin contact.

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

For the classifications not written out in full in this section the full text can be found in section 16.

#### 2.2. Label elements

Globally Harmonized System (GHS) in accordance with UK regulations.

Pictogram:





# Signal Word: Warning

Hazard Statement:

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

Precautionary Statements (Prevention):

P264 Wash contaminated body parts thoroughly after handling.

P280 Wear eye/face protection.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

P391 Collect spillage.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to a licensed hazardous-waste disposal

contractor or collection site except for empty clean containers which can

be disposed of as non-hazardous waste.

Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: 1,2-BENZISOTHIAZOL-3(2H)-ONE

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Hazard determining component(s) for labelling: METRAFENONE, D-GLUCOPYRANOSE,

OLIGOMERS, DECYL OCTYL GLYCOSIDE

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

Classification/labelling in accordance with UK regulations.

Hazard symbol(s)

Xi Irritant.

N Dangerous for the environment.



R-phrase(s)

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

S-phrase(s)

S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S20/21 When using do not eat, drink or smoke.

S24 Avoid contact with skin.

S35 This material and its container must be disposed of in a safe way.

S37 Wear suitable gloves.

S57 Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: METRAFENONE, D-GLUCOPYRANOSE, OLIGOMERS, DECYL OCTYL GLYCOSIDE

The product contains: 1,2-BENZISOTHIAZOL-3(2H)-ONE May produce an allergic reaction.

#### 2.3. Other hazards

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

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

# **SECTION 3: Composition/Information on Ingredients**

# 3.1. Substances

Not applicable

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#### 3.2. Mixtures

## **Chemical nature**

crop protection product, fungicide, suspension concentrate (SC)

# Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

# Metrafenone

Content (W/W): 25.2 % Aquatic Acute 1
CAS Number: 220899-03-6 Aquatic Chronic 2
H400, H411

# D-Glucopyranose, oligomers, decyl octyl glycosides

Content (W/W): < 50 % Eye Dam./Irrit. 1

CAS Number: 68515-73-1 H318

EC-Number: 500-220-1

REACH registration number: 01-

2119488530-36

# 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

Content (W/W): < 0.05 % Acute Tox. 4 (oral)
CAS Number: 2634-33-5 Skin Corr./Irrit. 2
EC-Number: 220-120-9 Eye Dam./Irrit. 1
INDEX-Number: 613-088-00-6 Skin Sens. 1
Aquatic Acute 1

H318, H315, H302, H317, H400

Specific concentration limit: Skin Sens. 1: >= 0.05 %

## Propane-1,2-diol

Content (W/W): < 10 % CAS Number: 57-55-6 EC-Number: 200-338-0

REACH registration number: 01-

2119456809-23

## Hazardous ingredients

according to Directive 1999/45/EC

### Metrafenone

Content (W/W): 25.2 % CAS Number: 220899-03-6

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Hazard symbol(s): N R-phrase(s): 50/53

D-Glucopyranose, oligomers, decyl octyl glycosides

Content (W/W): < 50 % CAS Number: 68515-73-1 EC-Number: 500-220-1

REACH registration number: 01-2119488530-36

Hazard symbol(s): Xi R-phrase(s): 41

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

Content (W/W): < 0.05 %
CAS Number: 2634-33-5
EC-Number: 220-120-9
INDEX-Number: 613-088-00-6
Hazard symbol(s): Xn, N
R-phrase(s): 22, 38, 41, 43, 50

Propane-1,2-diol

Content (W/W): < 10 % CAS Number: 57-55-6 EC-Number: 200-338-0

REACH registration number: 01-2119456809-23

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

## **SECTION 4: First-Aid Measures**

## 4.1. Description of first aid measures

Show container, label and/or safety data sheet to physician.

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:

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 200-300 ml of water, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

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

# **SECTION 5: Fire-Fighting Measures**

# 5.1. Extinguishing media

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

# 5.2. Special hazards arising from the substance or mixture

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

# 5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

## Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

# **SECTION 6: Accidental Release Measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

## 6.2. Environmental precautions

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

## 6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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#### 6.4. Reference to other sections

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

# **SECTION 7: Handling and Storage**

# 7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

# 7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: 0 °C

The packed product must be protected from temperatures below the indicated one.

Protect from temperatures above: 35 °C

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

# 7.3. 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.

# **SECTION 8: Exposure Controls/Personal Protection**

# 8.1. Control parameters

Components with occupational exposure limits

57-55-6: Propane-1,2-diol

TWA value 10 mg/m3 (WEL/EH 40 (UK)), Particulate

TWA value 474 mg/m3; 150 ppm (WEL/EH 40 (UK)), Total vapour and

particulates

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom). For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

#### 8.2. Exposure controls

Personal protective equipment

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Respiratory protection:

Respiratory protection not required.

#### 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) etc.

#### Eye protection:

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

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

## General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

# **SECTION 9: Physical and Chemical Properties**

# 9.1. Information on basic physical and chemical properties

Form: suspension
Colour: beige
Odour: aliphatic

Odour threshold:

Not determined due to potential

health hazard by inhalation.

pH value: approx. 6 - 8 (pH Meter)

(20 °C)

(measured with the undiluted

substance)

Melting point: approx. 0 °C

Information applies to the solvent.

Boiling point: approx. 100 °C

Information applies to the solvent.

Flash point:

Non-flammable.

Evaporation rate:

not applicable

Flammability: not flammable

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Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Ignition temperature: 379 °C

The product has not been tested. The statement has been derived from substances/products of a similar

structure or composition.

Vapour pressure: approx. 23 hPa

(20 °C)

Information applies to the solvent.

Density: approx. 1.19 g/cm3 (OECD Guideline 109)

(20 °C)

Relative vapour density (air):

not applicable

Solubility in water: dispersible

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Thermal decomposition: 205 °C, 30 kJ/kg (DSC (DIN 51007))

(onset temperature)

290 °C, 750 kJ/kg (DSC (DIN 51007))

(onset temperature)

Not a substance liable to self-decomposition according to UN transport

regulations, class 4.1.

Viscosity, dynamic: approx. 616 mPa.s (OECD 114)

(20 °C, 100 1/s)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

## 9.2. Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

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

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### 10.2. Chemical stability

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

# 10.3. Possibility of hazardous reactions

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

# 10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

# 10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents, strong bases, strong acids

# 10.6. Hazardous decomposition products

Hazardous decomposition products:

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

# **SECTION 11: Toxicological Information**

## 11.1. Information on toxicological effects

#### **Acute toxicity**

Assessment of acute toxicity:

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

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

No mortality was observed.

LC50 rat (by inhalation): > 3.1 mg/l 4 h (OECD Guideline 403)

No mortality was observed. An aerosol with respiratory particles was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

### Irritation

Assessment of irritating effects:

May cause slight irritation to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: Slightly irritating. (OECD Guideline 405)

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## Respiratory/Skin sensitization

#### Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

# Experimental/calculated data:

Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

## Germ cell mutagenicity

#### Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

## Carcinogenicity

#### Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

## Developmental toxicity

#### Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

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

#### Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organioxicity was observed after repeated administration to animals.

## Other relevant toxicity information

Misuse can be harmful to health.

## **SECTION 12: Ecological Information**

## 12.1. Toxicity

#### Assessment of aquatic toxicity:

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

#### Toxicity to fish:

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LC50 (96 h) > 94 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

Aquatic invertebrates:

EC50 (48 h) 20 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 21 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)

No observed effect concentration (72 h) 0.76 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)

# 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

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

Information on: Metrafenone

Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

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# 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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

Information on: Metrafenone Bioaccumulation potential:

Bioconcentration factor: 140 - 180 (42 d), Lepomis macrochirus (OECD Guideline 305 E)

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# 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metrafenone

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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# 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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#### 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

#### 12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

# **SECTION 13: Disposal Considerations**

#### 13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

# **SECTION 14: Transport Information**

### Land transport

**ADR** 

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains METRAFENONE)

Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes

Special precautions for Tunnel code: E

user:

**RID** 

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains METRAFENONE)

Transport hazard class(es): 9, EHSM

Packing group:

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Environmental hazards: yes

Special precautions for

user:

None known

# **Inland waterway transport**

ADN

**UN** number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains METRAFENONE)

Transport hazard class(es): 9, EHSM

Packing group: Ш Environmental hazards: ves

Special precautions for None known

user:

Transport in inland

Not evaluated

waterway vessel:

# Sea transport

**IMDG** 

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains METRAFENONE)

Transport hazard class(es): 9, EHSM

Packing group: Ш

Environmental hazards: ves

Marine pollutant: YES

Special precautions for None known

user:

# Air transport

IATA/ICAO

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains METRAFENONE)

Transport hazard class(es): 9, EHSM

Packing group: Ш Environmental hazards: yes

Special precautions for

None known

user:

# 14.1. UN number

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See corresponding entries for "UN number" for the respective regulations in the tables above.

# 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

# 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

# 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

## 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

# 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

# 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Regulation: Not evaluated Shipment approved: Not evaluated Pollution name: Not evaluated Pollution category: Not evaluated Ship Type: Not evaluated

# **SECTION 15: Regulatory Information**

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

To avoid risks to man and the environment, comply with the instructions for use.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

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### **SECTION 16: Other Information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

N Dangerous for the environment.

Xi Irritant. Xn Harmful.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

41 Risk of serious damage to eves.

Harmful if swallowed.

38 Irritating to skin.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

Eye Dam./Irrit. Serious eye damage/eye irritation

Aquatic Chronic Hazardous to the aquatic environment - chronic Aquatic Acute Hazardous to the aquatic environment - acute

Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation
Skin Sens. Skin sensitization
H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H315 Causes skin irritation. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

If you have any queries relating to this MSDS, it's contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

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.

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