

Safety data sheet

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

Date / Revised: 18.07.2013 Version: 3.0

Product: LASER

(ID no. 30277177/SDS_CPA_GB/EN)

Date of print 20.07.2013

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

1.1. Product identifier

LASER

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

Relevant identified uses: crop protection product, herbicide

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]

Asp. Tox. 1
Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
STOT SE 3 (Vapours may cause drowsiness and dizziness.)

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Aquatic Chronic 2

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

Possible Hazards:

Irritating to skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

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: Danger

Hazard Statement:

H318 Causes serious eye damage.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

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):

P261d Avoid breathing vapours.

P280f Wear protective gloves and eye/face protection.

P264 Wash with plenty of water and soap thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

Precautionary Statements (Response):

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P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P331 Do NOT induce vomiting.

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

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

P310 Immediately call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for

breathing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P391 Collect spillage.

Precautionary Statements (Storage): P405 Store locked up.

Precautionary Statements (Disposal):

P501.1 Dispose of contents/container in accordance with local regulations.

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

Hazard determining component(s) for labelling: SOLVENT NAPHTHA

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

Classification/labelling in accordance with UK regulations.

Hazard symbol(s)

Xn Harmful.

N Dangerous for the environment.



R-phrase(s)

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

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

aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

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.

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

Use appropriate container to avoid environmental contamination.

If swallowed, do not induce vomiting: seek medical advice immediately

and show this container or label.

Hazard determining component(s) for labelling: SOLVENT NAPHTHA

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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

3.2. Mixtures

Chemical nature

crop protection product, herbicide, Emulsifiable concentrate (EC)

Contains: Cycloxydim (Content (W/W): 21 %)

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

solvent naphtha

Content (W/W): < 75 % Asp. Tox. 1

CAS Number: 64742-94-5 STOT SE 3 (drowsiness and dizziness)

Aquatic Chronic 2

H411, H304, H336, EUH066

Docusate sodium

Content (W/W): < 4 % Skin Corr./Irrit. 2 CAS Number: 577-11-7 Eye Dam./Irrit. 1 EC-Number: 209-406-4 H318, H315

REACH registration number: 01-

2119491296-29

naphthalene

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Content (W/W): < 1 % Acute Tox. 4 (oral)

CAS Number: 91-20-3 Carc. 2

EC-Number: 202-049-5 Aquatic Acute 1
INDEX-Number: 601-052-00-2 Aquatic Chronic 1
M-factor acute: 1
M-factor chronic: 1

H302, H351, H400, H410

<u>Hazardous ingredients</u> according to Directive 1999/45/EC

solvent naphtha

Content (W/W): < 75 % CAS Number: 64742-94-5 Hazard symbol(s): Xn, N R-phrase(s): 51/53, 65, 66, 67

Docusate sodium

Content (W/W): < 4 % CAS Number: 577-11-7 EC-Number: 209-406-4

REACH registration number: 01-2119491296-29

Hazard symbol(s): Xi R-phrase(s): 38, 41

naphthalene

Content (W/W): < 1 % CAS Number: 91-20-3 EC-Number: 202-049-5

INDEX-Number: 601-052-00-2 Hazard symbol(s): Xn, N R-phrase(s): 22, 40, 50/53

Carc. Cat. 3

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.

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately inhale corticosteroid dose aerosol.

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On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

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 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

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, foam, dry powder, carbon dioxide

5.2. Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, sulfur oxides, 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

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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.

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:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

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.

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

91-20-3: naphthalene

TWA value 50 mg/m3; 10 ppm (OEL (EU)) indicative

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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

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

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:

Tightly fitting safety goggles (splash 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: liquid
Colour: yellow, clear
Odour: strong, aromatic

Odour threshold:

Not determined due to potential health hazard by inhalation.

pH value: approx. 4 - 5

(1.0 %(m), 20 °C) (as an emulsion)

crystallization temperature: < -20 °C

Boiling point: approx. 178 - 209 °C

Information applies to the solvent.

Flash point: 65 °C (DIN EN 22719; ISO 2719)

Evaporation rate:

not applicable

Flammability: not highly flammable (Directive 92/69/EEC, A.12)

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(Directive 92/69/EEC, A.15)

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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.

445 °C Ignition temperature:

Vapour pressure: approx. 0.1 kPa

(20 °C)

The product has not been tested., Information applies to the solvent.

approx. 0.95 g/cm3 Density:

(OECD Guideline 109)

(20 °C)

Relative vapour density (air):

not determined emulsifiable

Information on: Cycloxydim

Solubility in water:

Partitioning coefficient n-octanol/water (log Kow): 1.36

(25 °C; pH value: 7)

Thermal decomposition: 135 °C, 140 kJ/kg (DSC (OECD 113))

(onset temperature)

Viscosity, dynamic: 3.7 mPa.s

(20 °C, 100 1/s)

Viscosity, kinematic: 2.6 mm2/s

(40 °C)

Explosion hazard: not explosive (Directive 92/69/EEC, A.14) Fire promoting properties: not fire-propagating (UN Test O.2 (oxidizing

liquids))

(OECD 114)

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.

10.2. Chemical stability

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

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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 acids, strong bases, strong oxidizing agents

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 by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg (OECD Guideline 401)

No mortality was observed.

LC50 rat (by inhalation): > 5.3 mg/l 4 h (OECD Guideline 403)

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

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

Irritation

Assessment of irritating effects:

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

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

Respiratory/Skin sensitization

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Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

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.

Reproductive toxicity

Assessment of reproduction toxicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

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.

Information on: Cycloxydim

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

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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:

LC50 (96 h) 5.17 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 92/69/EEC, C.1)

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)

Information on: Cycloxydim Aquatic invertebrates:

EC50 (48 h) 132.5 mg/l, Daphnia magna

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: Cycloxydim

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

Information on: solvent naphtha

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

Not readily blodegradable (by OLOD chiena,

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: Cycloxydim Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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Information on: solvent naphtha Bioaccumulation potential: not determined

12.4. Mobility in soil

Assessment transport between environmental compartments:

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

Information on: Cycloxydim

Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependant on degradation - be

transported to deeper soil areas with larger water loads.

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.

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 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.

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SECTION 14: Transport Information

Land transport

ADR

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains SOLVENT NAPHTHA)

Transport hazard class(es): 9. EHSM

Packing group: Ш Environmental hazards: ves

Special precautions for Tunnel code: E

user:

RID

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains SOLVENT NAPHTHA)

9, EHSM Transport hazard class(es):

Packing group: Ш Environmental hazards: ves

Special precautions for None known

user:

Inland waterway transport

ADN

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains SOLVENT NAPHTHA)

Transport hazard class(es): 9. EHSM

Packing group: Ш Environmental hazards: ves

Special precautions for

None known

user:

Transport in inland waterway vessel:

Not evaluated

Sea transport

IMDG

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains SOLVENT NAPHTHA)

Transport hazard class(es): 9, EHSM

Packing group: Ш yes

Environmental hazards:

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Marine pollutant: YES

Special precautions for

user:

None known

Air transport

IATA/ICAO

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains SOLVENT NAPHTHA)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for None known

user:

14.1. UN number

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

Further information

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This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

SECTION 15: Regulatory Information

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

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

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).

15.2. Chemical Safety Assessment

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

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:

Xn Harmful.

N Dangerous for the environment.

Xi Irritant.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

38 Irritating to skin.

41 Risk of serious damage to eyes.

22 Harmful if swallowed.

40 Limited evidence of a carcinogenic effect.

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

the aquatic environment.

Asp. Tox. Aspiration hazard Skin Corr./Irrit. Skin corrosion/irritation

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

STOT SE Specific target organ toxicity — single exposure

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H304

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Aquatic Chronic Hazardous to the aquatic environment - chronic

Acute Tox. Acute toxicity Carc. Carcinogenicity

Aquatic Acute Hazardous to the aquatic environment - acute

Carc. Cat. 3 Carcinogenic substances Category 3: Substances which cause concern

for man owing to possible carcinogenic effects. Toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H318 Causes serious eye damage.
H315 Causes skin irritation.
H302 Harmful if swallowed.

H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.