

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: 15.03.2018 Version: 1.0 Product: **Vizura**

(ID no. 30642972/SDS_GEN_GB/EN)

Date of print 15.03.2018

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

1.1. Product identifier

Vizura

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

Relevant identified uses: soil/plant amendment

1.3. Details of the supplier of the safety data sheet

<u>Company:</u>	Contact address:
BASF SE	BASF plc
67056 Ludwigshafen	PO Box 4, Earl Road, Cheadle Hulme,
GERMANY	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]

Met. Corr. 1 Skin Corr./Irrit. 1B

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Eye Dam./Irrit. 1 Repr. 2 (fertility) Repr. 2 (unborn child) STOT RE 2 Aquatic Chronic 3

H290, H314, H361fd, H373, H412

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

2.2. Label elements

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

Pictogram:



Signal Word: Danger

Hazard Statement:				
H290	May be corrosive to metals.			
H314	Causes severe skin burns and eye damage.			
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H412	Harmful to aquatic life with long lasting effects.			
Precautionary Statemen	Precautionary Statement:			
P101	If medical advice is needed, have product container or label at hand.			
P102	Keep out of reach of children.			
P103	Read label before use.			
Precautionary Statemen	ts (Prevention):			
P280	Wear protective gloves and eye/face protection.			
P260	Do not breathe mist or vapour.			
P201	Obtain special instructions before use.			
P202	Do not handle until all safety precautions have been read and understood.			
P264	Wash contaminated body parts thoroughly after handling.			
P234	Keep only in original packaging.			

Precautionary Statements (Response):

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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.	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing.	
	Rinse skin with water/shower.	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for	
	breathing.	
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P390	Absorb spillage to prevent material damage.	
Precautionary Statemer	its (Storage):	
P405	Store locked up.	
P406	Store in a corrosion-resistant/ container with a resistant inner liner.	
Precautionary Statements (Disposal):		
P501	Dispose of contents/container to hazardous or special waste collection	
	point.	
	•	

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

Hazard determining component(s) for labelling: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1), phosphoric acid...%

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

soil improver

Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1)

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Content (W/W): < 15 % CAS Number: 202842-98-6 EC-Number: 424-640-9 REACH registration number: 01- 0000017109-71	Date of print 15.03.2018 Acute Tox. 4 (oral) Eye Dam./Irrit. 2 Repr. 2 (fertility) Repr. 2 (unborn child) STOT RE 2 H319, H302, H373, H361fd
phosphoric acid%, orthophosphoric acid% Content (W/W): < 50 % CAS Number: 7664-38-2 EC-Number: 231-633-2 REACH registration number: 01- 2119485924-24 INDEX-Number: 015-011-00-6	Met. Corr. 1 Skin Corr./Irrit. 1B Eye Dam./Irrit. 1 H290, H314 Specific concentration limit: Skin Corr./Irrit. 2: 10 - < 25 % Eye Dam./Irrit. 2: 10 - < 25 % Skin Corr./Irrit. 1B: >= 25 %

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

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 administer a corticosteroid from a controlled/metered dose inhaler.

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:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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.

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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, dry powder, foam, carbon dioxide

5.2. Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, nitrogen oxides, Phosphorus compounds 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:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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.

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 discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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.

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

7664-38-2: phosphoric acid...%, orthophosphoric acid...% TWA value 1 mg/m3 (WEL/EH 40 (UK)) STEL value 2 mg/m3 (WEL/EH 40 (UK)) TWA value 1 mg/m3 (OEL (EU)) indicative STEL value 2 mg/m3 (OEL (EU)) indicative

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:

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Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

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: Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

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

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: Colour:	liquid yellow to orange	
Odour:	faint, smoky	
Odour threshold:	Taint, Shoky	
pH value:	Not determined due to potential health hazard by inhalation. approx. 0.5 - 1	
	(20 °C)	
	(measured with the undiluted substance)	
Melting temperature:	-28 °C	
boiling temperature:	106 °C	(OECD Guideline 103)
Flash point:	> 90 °C	(Regulation 440/2008/EC, A.9)
	No flash point - Measurement made up to the indicated temperature, pilot light extinguishes.	
Evaporation rate:		
Flammability:	not applicable not highly flammable	

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oduct: Vizura		
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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	
Institute to personal uses	the intended use.	(Description 110/2000/EC
Ignition temperature:	approx. 674 °C	(Regulation 440/2008/EC, A.15)
		A.15)
Vapour pressure:	approx. 23 hPa	
rapour procedio.	(approx. 20 °C)	
	Information applies to the solvent.	
Density:	approx. 1.23 g/cm3	(Directive 92/69/EEC, A.3)
	(20 °C)	(=,
Relative vapour density (· · · · ·	
	not applicable	
Solubility in water:	miscible	
Partitioning coefficient n-		
	not applicable	
T I	not applicable	440))
I hermal decomposition:	220 - 250 °C, 50 kJ/kg, (DSC (OECD	
	Not a substance liable to self-decompo	osition according to UN transport
Vicessity, dynamics	regulations, class 4.1.	
Viscosity, dynamic:	approx. 5 mPa.s (20 °C)	
Explosion bazard:	Based on the chemical structure	(UN Test 1 (a) UN Gap Test)
Explosion hazard:	there is no indicating of explosive	(ON Test 1 (a) ON Gap Test)
	properties.	
Fire promoting properties		(UN Test O.2 (oxidizing
		liquids))
		· //

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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Corrosion to metals: Corrosive effect on metals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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 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:

The product has not been tested. The statement has been derived from the properties of the individual components. Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1)

Experimental/calculated data: LD50 rat (oral): > 200 - < 2,000 mg/kg (Guideline 92/69/EEC, B.1)

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Experimental/calculated data: LC50 rat (by inhalation): > 5.5 mg/l 4 h (OECD Guideline 403) Tested as dust aerosol.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Experimental/calculated data: (dermal):No data available.

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Irritation

Assessment of irritating effects:

The product has not been tested. The statement has been derived from the properties of the individual components. Corrosive! Damages skin and eyes.

Information on: phosphoric acid...%, orthophosphoric acid...% Experimental/calculated data: Skin corrosion/irritation rabbit: Corrosive. (OECD Guideline 404)

Skin corrosion/irritation rabbit: Corrosive. (Draize test) Literature data.

Information on: phosphoric acid...%, orthophosphoric acid...% Experimental/calculated data: Serious eye damage/irritation: No data available.

Respiratory/Skin sensitization

Assessment of sensitization: The product has not been tested. The statement has been derived from the properties of the individual components. There is no evidence of a skin-sensitizing potential.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Experimental/calculated data: Guinea pig maximization test guinea pig: Non-sensitizing. (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.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was u

The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was not mutagenic in a test with mammals.

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.

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Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Assessment of reproduction toxicity: The results of animal studies suggest 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.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

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.

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

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: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Assessment of repeated dose toxicity: Repeated oral exposure may affect certain organs.

Information on: phosphoric acid...%, orthophosphoric acid...% Assessment of repeated dose toxicity: The substance may lead to shifts in blood composition following repeated exposure in animal experiments.

Aspiration hazard

No aspiration hazard expected.

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

Other relevant toxicity information

Misuse can be harmful to health.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity: Harmful to aquatic life with long lasting effects. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Toxicity to fish: LC50 (96 h) > 110 mg/l, Pimephales sp. (static)

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Aquatic invertebrates: EC50 (96 h) 41 mg/l, Crassostrea virginica

EC50 (48 h) > 100 mg/l, Daphnia magna (static)

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Aquatic plants:

EC50 (96 h) 25 mg/l (growth rate), Anabaena flos-aquae (static)

No observed effect concentration (96 h) 5.7 mg/l (growth rate), Anabaena flos-aquae (static)

EC50 (96 h) > 79 mg/l (growth rate), Pseudokirchneriella subcapitata (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: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Assessment biodegradation and elimination (H2O): Was found to be potentially biodegradeable. Poorly eliminated from water.

12.3. Bioaccumulative potential

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Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Bioaccumulation potential: Bioconcentration factor: 1.2 (14 d), Pimephales promelas (OECD Guideline 305 E) Does not significantly accumulate in organisms.

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: 1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1) Assessment transport between environmental compartments: Adsorption in soil: 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 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 disposed of or incinerated in accordance with 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)

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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

RID

UN number	UN1805
UN proper shipping name:	PHOSPHORIC ACID SOLUTION
Transport hazard class(es):	8
Packing group:	III
Environmental hazards:	no
Special precautions for	None known
user:	

Inland waterway transport ADN

UN number	UN1805
UN proper shipping name:	PHOSPHORIC ACID SOLUTION
Transport hazard class(es):	8
Packing group:	III
Environmental hazards:	no
Special precautions for	None known
user:	

<u>Transport in inland waterway vessel</u> Not evaluated

Sea transport

IMDG

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UN number:	UN 1805
UN proper shipping name:	PHOSPHORIC ACID SOLUTION
Transport hazard class(es):	8
Packing group:	III
Environmental hazards:	no
	Marine pollutant: NO
Special precautions for	None known
user:	

Air transport

IATA/ICAO

UN number:	UN 1805
UN proper shipping name:	PHOSPHORIC ACID SOLUTION
Transport hazard class(es):	8
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
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 MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated

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Pollution category:	Not evaluated
Ship Type:	Not evaluated

Further information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

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

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).

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

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:	
Met. Corr.	Corrosive to metals
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Repr.	Reproductive toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H373	May cause damage to organs () through prolonged or repeated exposure.

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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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. 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.