

CLAYTON PLANT PROTECTION

CLAYTON AUGUSTA Safety Data Sheet according to Regulation (EC) No. 1907/2006. Version 1/dsc 27/03/2020
This version replaces all previous versions

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

- 1.1. Product identifier CLAYTON AUGUSTA
1.2. Relevant identified uses of the substance or mixture and uses advised. FUNGICIDE
1.3. Details of the supplier of the safety data sheet : Marketing Company in Ireland
Clayton Plant Protection Ltd., Bracetown Business Park, Clonee, Dublin15. Ireland.
Tel: (00 353) 1 8210127 www.claytonpp.com Email: info@claytonpp.com
1.4 Emergency contact information:
In case of emergency: National Poisons Information Centre, Beaumont Hospital at 01 809 2166
or 01 837 9964

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Acute toxicity, Category 4 H332: Harmful if inhaled.
Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting effects.

- 2.2. Label elements
Labelling according to Regulation (EC) 1272/2008



Signal word(s) WARNING

Hazard statements :
H332 Harmful if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements

EUH208 Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.
Response: P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTRE/doctor if you feel unwell.
P391 Collect spillage.
Disposal: P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
azoxystrobin (ISO)	131860-33-8 607-256-00-8	Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 20 - < 25
C16-18 alcohols, ethoxylated	68439-49-6 500-212-8	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10 - < 20
naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methyl naphthalenesulfonic acid, sodium salt	9084-06-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	>= 0.025 - < 0.05

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

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4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control centre or physician, or going for treatment.

If inhaled : Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Nonspecific No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires Alcohol-resistant foam or Water spray

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

Further information : Do not allow run-off from fire-fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions : Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections : For disposal considerations see section 13. Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling : No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities : No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding-stuffs.

Further information on storage stability : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

7.3 Specific end use(s) : For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No	Value type (Form of exposure)	Control parameters	Basis
propane-1,2-diol	57-55-6	OELV - 8 hrs (TWA) (particles)	10 mg/m ³	IE OEL
	57-55-6	OELV - 8 hrs (TWA) (total (vapour and particles))	150 ppm 470 mg/m ³	IE OEL

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin and body protection : No special protective equipment required. Select skin and body protection based on the physical job requirements.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Respirator with combination filter for vapour/particulate (EN 141)

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Filter type : Combined particulates and organic vapour type (A-P)

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : off-white to yellow-orange

Odour : odourless

Odour Threshold : No data available

pH : 6 - 8

Concentration: 1 % w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : > 97 °C(975.0 hPa) Method: Pinsky-Martens closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Solubility(ies) Solubility in other solvents : No data available

Partition coefficient: noctanol/water : No data available

Auto-ignition temperature : 475 °C

Decomposition temperature : No data available

Viscosity, dynamic : 76.0 - 427 mPa.s (40 °C) 117 - 541 mPa.s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information Surface tension : 32.0 mN/m, 20 °C

SECTION 10: Stability and reactivity

10.1 Reactivity : None reasonably foreseeable.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials : None known.

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10.6 Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Ingestion Inhalation Skin contact Eye contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : Acute toxicity estimate: 2.69 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: The toxicological data has been taken from products of similar composition.

Components: azoxystrobin (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist

LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity.

C16-18 alcohols, ethoxylated: Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

1,2-benzisothiazol-3(2H)-one: Acute oral toxicity : LD50 (Rat): 1,020 mg/kg

Skin corrosion/irritation

Product: Species : Rabbit Result : No skin irritation Remarks : The toxicological data has been taken from products of similar composition.

Components: azoxystrobin (ISO): Species : Rabbit Result : No skin irritation

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt: Species : Rabbit Result : Irritating to skin.

1,2-benzisothiazol-3(2H)-one: Result : Irritating to skin.

Serious eye damage/eye irritation

Product: Species : Rabbit Result : No eye irritation Remarks : The toxicological data has been taken from products of similar composition.

Components: azoxystrobin (ISO): Species : Rabbit Result : No eye irritation

C16-18 alcohols, ethoxylated: Result : Irreversible effects on the eye

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt:

Species : Rabbit Result : Irritation to eyes, reversing within 21 days

1,2-benzisothiazol-3(2H)-one: Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product: Species : Guinea pig Result : Did not cause sensitisation on laboratory animals. Remarks : The toxicological data has been taken from products of similar composition.

Components: azoxystrobin (ISO): Species : Guinea pig Result : Did not cause sensitisation on laboratory animals.

1,2-benzisothiazol-3(2H)-one: Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Components: azoxystrobin (ISO): Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Components: azoxystrobin (ISO): Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components: azoxystrobin (ISO): Assessment : No toxicity to reproduction

Repeated dose toxicity

Components: azoxystrobin (ISO): Remarks : No adverse effect has been observed in chronic toxicity tests.

SECTION 12: Ecological information

12.1 Toxicity

Product: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l Exposure time: 96 h Remarks: Based on test results obtained with similar product. LC50 (Cyprinus carpio (Carp)): 2.8 mg/l Exposure time: 96 h Remarks: Based on test results obtained with similar product.

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.83 mg/l Exposure time: 48 h
Remarks: Based on test results obtained with similar product.

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.2 mg/l Exposure time: 72 h
Remarks: Based on test results obtained with similar product.

Ecotoxicology Assessment : Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. Classification of the product is based on the summation of the concentrations of classified components.

Components: azoxystrobin (ISO): Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.47 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.28 mg/l Exposure time: 48 h
EC50 (Americamysis bahia (Mysid shrimp)): 0.055 mg/l Exposure time: 96 h
Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 2 mg/l Exposure time: 96 h
NOEC (Pseudokirchneriella subcapitata (green algae)): 0.038 mg/l End point: Growth rate Exposure time: 96 h
ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.301 mg/l Exposure time: 96 h
M-Factor (Acute aquatic toxicity) : 10
Toxicity to microorganisms : IC50 (Pseudomonas putida): > 3.2 mg/l Exposure time: 6 h
Toxicity to fish (Chronic toxicity) : NOEC: 0.16 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
NOEC: 0.147 mg/l Exposure time: 33 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.044 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
NOEC: 0.0095 mg/l Exposure time: 28 d Species: Americamysis bahia (Mysid shrimp)
M-Factor (Chronic aquatic toxicity) : 10

1,2-benzisothiazol-3(2H)-one: Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life.

12.2 Persistence and degradability Components: azoxystrobin (ISO): Biodegradability : Result: Not readily biodegradable. Stability in water : Degradation half life: 214 d
Remarks: The substance is stable in water.

12.3 Bioaccumulative potential Components: azoxystrobin (ISO): Bioaccumulation : Remarks: Does not bioaccumulate.

12.4 Mobility in soil Components: azoxystrobin (ISO): Distribution among environmental compartments : Remarks: Azoxystrobin has low to very high mobility in soil.

Stability in soil : Dissipation time: 80 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

12.5 Results of PBT and vPvB assessment Product: Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components: azoxystrobin (ISO): Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods Product : Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Waste Code : 150110, packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 UN number

ADN : UN 3082

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)

IATA : Environmentally hazardous substance, liquid, n.o.s. (AZOXYSTROBIN)

14.3 Transport hazard class(es)

ADN : 9

ADR : 9

RID : 9

IMDG : 9

IATA : 9

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14.4 Packing group

ADN Packing group : III Classification Code : M6 Hazard Identification Number : 90 Labels : 9

ADR Packing group : III Classification Code : M6 Hazard Identification Number : 90 Labels : 9 Tunnel restriction code : (-)

RID Packing group : III Classification Code : M6 Hazard Identification Number : 90 Labels : 9

IMDG Packing group : III Labels : 9 EmS Code : F-A, S-F

IATA (Cargo) Packing instruction (cargo aircraft) : 964 Packing instruction (LQ) : Y964 Packing group : III Labels : Miscellaneous

IATA (Passenger) Packing instruction (passenger aircraft) : 964 Packing instruction (LQ) : Y964 Packing group : III Labels : Miscellaneous

14.5 Environmental hazards

ADN Environmentally hazardous : yes

ADR Environmentally hazardous : yes

RID Environmentally hazardous : yes

IMDG Marine pollutant : yes

IATA (Passenger) Environmentally hazardous : yes

IATA (Cargo) Environmentally hazardous : yes

14.6 Special precautions for user : The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1 ENVIRONMENTAL HAZARDS Quantity 1 : 100 t Quantity 2 : 200 t

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Use plant protection products safely. Always read the label and product information before use.

15.2 Chemical safety assessment : A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements H302 : Harmful if swallowed. H315 : Causes skin irritation. H317 : May cause an allergic skin reaction. H318 : Causes serious eye damage. H319 : Causes serious eye irritation. H331 : Toxic if inhaled. H400 : Very toxic to aquatic life. H410 : Very toxic to aquatic life with long lasting effects. Full text of other abbreviations Acute Tox. : Acute toxicity Aquatic Acute : Acute aquatic toxicity Aquatic Chronic : Chronic aquatic toxicity Eye Dam. : Serious eye damage Eye Irrit. : Eye irritation Skin Irrit. : Skin irritation Skin Sens. : Skin sensitisation IE OEL : Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1 IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and

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Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information :

Classification of the mixture:	Classification procedure:
Acute Tox. 4 H332	Calculation method
Aquatic Acute 1 H400	On basis of test data.
Aquatic Chronic 1 H410	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.