

ELESTAL

Version 1.0 Revision Date: 26.04.2023 SDS Number: S00058731341 This version replaces all previous versions.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ELESTAL

Design code : A21781B

Manufacturer or supplier's details

Company : Syngenta Crop Protection AG

Address : Rosentalstrasse 67, Postfach
CH-4002 Basel
Switzerland

Telephone : +41 61 323 11 11

Emergency telephone number : +44 1484 538444

Telefax : +41 61 323 12 12

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Oral) : Category 4

Serious eye damage/eye irritation : Category 2A

Skin sensitisation : Sub-category 1A

Reproductive toxicity : Category 2

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.
 H361d Suspected of damaging the unborn child.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P203 Obtain, read and follow all safety instructions before use.
 P261 Avoid breathing dust.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P317 + P330 IF SWALLOWED: Get medical help. Rinse mouth.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P318 IF exposed or concerned, get medical advice.
 P333 + P317 If skin irritation or rash occurs: Get medical help.
 P337 + P317 If eye irritation persists: Get medical help.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

May form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
spiropidion	1229023-00-0	>= 30 - < 50
acetamiprid (ISO)	135410-20-7	>= 20 - < 25
reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda	Not Assigned	>= 1 - < 3
citric acid hydrate	5949-29-1	>= 1 - < 10
disodium maleate	371-47-1	>= 0,1 - < 1
methylcyclohexane	108-87-2	>= 0,1 - < 0,25

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4. FIRST AID MEASURES

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center 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: contains petroleum distillates and/or aromatic solvents.
- Most important symptoms and effects, both acute and delayed : Aspiration may cause pulmonary oedema and pneumonitis.
- Notes to physician : There is no specific antidote available.
Treat symptomatically.
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

5. FIREFIGHTING MEASURES

- 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.
- Specific hazards during fire-fighting : 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.
- Specific extinguishing methods : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8. Avoid dust formation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

7. HANDLING AND STORAGE

- Advice on safe handling : This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.
- This material can become readily charged in most operations.
- Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
For personal protection see section 8.
- Conditions for safe storage : 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 feedingstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
spiropidion	1229023-00-0	TWA	0,1 mg/m ³	Syngenta
methylcyclohexane	108-87-2	TWA	400 ppm	ACGIH

- Engineering measures** : Containment and/or segregation is the most reliable technical

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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

- Respiratory protection : No personal respiratory protective equipment normally required.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection
- Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0,5 mm
- Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : Tightly fitting safety goggles
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Remove and wash contaminated clothing before re-use.
Wear as appropriate:
Dust impervious protective suit
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : granules
- Colour : light brown

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Odour	:	No data available
Odour Threshold	:	No data available
pH	:	4,8 Concentration: 50 %w/v
		4 - 8 Concentration: 1 %w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Burning number	:	6 (100 °C) 2 (20 °C)
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
Density	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive

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Oxidizing properties : The substance or mixture is not classified as oxidizing.
 Minimum ignition energy : 30 - 100 mJ
 Particle size : No data available

10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.
 Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
 Conditions to avoid : No decomposition if used as directed.
 Incompatible materials : None known.
 Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Product:

Acute oral toxicity : LD50(Rat, female): 1.098 mg/kg
 Acute inhalation toxicity : LC50(Rat, male and female): > 5,1 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Assessment: The substance or mixture has no acute inhalation toxicity
 Acute dermal toxicity : LD50(Rat, male and female): > 2.000 mg/kg
 Assessment: The substance or mixture has no acute dermal toxicity

Components:

spiropidion:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
 Acute inhalation toxicity : LC50 (Rat, male and female): > 1,12 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

acetamiprid (ISO):

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Acute oral toxicity : LD50 (Rat, female): 146 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 0,882 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Acute oral toxicity : LD50 (Rat): 1.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,08 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 3.000 mg/kg

disodium maleate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation**Product:**

Species : Rabbit
Result : No skin irritation

Components:**spiropidion:**

Species : Rabbit
Result : No skin irritation

acetamiprid (ISO):

Species : Rabbit
Result : No skin irritation

disodium maleate:

Result : Irritating to skin.

methylcyclohexane:

Species : Rabbit
Result : Irritating to skin.

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Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : Eye irritation

Components:**spiropidion:**

Species : Rabbit
Result : No eye irritation

acetamiprid (ISO):

Species : Rabbit
Result : No eye irritation

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Species : Rabbit
Result : Risk of serious damage to eyes.

citric acid hydrate:

Result : Eye irritation

disodium maleate:

Result : Eye irritation

Respiratory or skin sensitisation**Product:**

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Result : The product is a skin sensitiser, sub-category 1A.

Components:**spiropidion:**

Test Type : mouse lymphoma cells
Species : Mouse
Result : The product is a skin sensitiser, sub-category 1A.

acetamiprid (ISO):

Species : Guinea pig
Result : Not a skin sensitizer.

disodium maleate:

Result : May cause sensitisation by skin contact.

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Germ cell mutagenicity

Components:

spiropidion:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

acetamiprid (ISO):

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

methylcyclohexane:

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Components:

spiropidion:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

acetamiprid (ISO):

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

spiropidion:

Reproductive toxicity - Assessment : No toxicity to reproduction

acetamiprid (ISO):

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

methylcyclohexane:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT - single exposure

Components:

spiropidion:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

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reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

citric acid hydrate:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

disodium maleate:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

methylcyclohexane:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Components:

spiropidion:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Components:

methylcyclohexane:

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3,5 mg/l
Exposure time: 96 h

LC50 (Cyprinus carpio (Carp)): 5,99 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 64 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 40

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plants mg/l
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 12 mg/l
End point: Growth rate
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 2,6 mg/l
End point: Growth rate
Exposure time: 72 h

Components:

spiropidion:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,56 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 9 mg/l
Exposure time: 48 h

EC50 (Chironomus riparius (Midge larvae)): 0,61 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 1,1 mg/l
Exposure time: 72 h

NOEC (Skeletonema costatum (marine diatom)): 0,19 mg/l
End point: Growth rate
Exposure time: 72 h

ErC50 (Lemna gibba G3 (gibbous duckweed)): 7,8 mg/l
Exposure time: 7 d

NOEC (Lemna gibba G3 (gibbous duckweed)): 0,086 mg/l
End point: Growth rate
Exposure time: 7 d

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,11 mg/l
Exposure time: 33 d
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,32 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

acetamiprid (ISO):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 119,3 mg/l
Exposure time: 96 h

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- LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 49,8 mg/l
Exposure time: 48 h
- EC50 (Chironomus riparius (harlequin fly)): 0,024 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 98,3 mg/l
Exposure time: 72 h
- Toxicity to fish (Chronic toxicity) : NOEC: 19,2 mg/l
Exposure time: 28 d
Species: Pimephales promelas (fathead minnow)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 5 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
- M-Factor (Chronic aquatic toxicity) : 10

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Remarks: Information given is based on data obtained from similar substances.
- Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 200 mg/l
Exposure time: 72 h
Remarks: Information given is based on data obtained from similar substances.

methylcyclohexane:

- Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 2,07 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,326 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0,134 mg/l

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Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):
0,0221 mg/l
End point: Growth rate
Exposure time: 72 h

Persistence and degradability**Components:****spiropidion:**

Biodegradability : Result: rapidly degradable

Stability in water : Degradation half life: 2,7 d
Remarks: Product is not persistent.

acetamiprid (ISO):

Biodegradability : Result: Not readily biodegradable.

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Biodegradability : Result: Readily biodegradable.
Remarks: Information given is based on data obtained from similar substances.

methylcyclohexane:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential**Components:****spiropidion:**

Bioaccumulation : Remarks: Does not bioaccumulate.

acetamiprid (ISO):

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-octanol/water : log Pow: 0,8
pH: 5,4

Mobility in soil**Components:****spiropidion:**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 0,6 d

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Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

acetamiprid (ISO):

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 3 d
Percentage dissipation: 50% (DT50)
Remarks: Product is not persistent.

Other adverse effects

Components:

spiropidion:

Results of PBT and vPvB assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

acetamiprid (ISO):

Results of PBT and vPvB 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).

methylcyclohexane:

Results of PBT and vPvB 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).

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3077
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SPIROPIDION)
 Class : 9
 Packing group : III
 Labels : 9

IATA-DGR

UN/ID No. : UN 3077
 Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (SPIROPIDION)
 Class : 9
 Packing group : III
 Labels : Miscellaneous
 Packing instruction (cargo aircraft) : 956
 Packing instruction (passenger aircraft) : 956
 Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SPIROPIDION)
 Class : 9
 Packing group : III
 Labels : 9
 EmS Code : F-A, S-F
 Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

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

This Safety Data Sheet contains no country specific regulatory information. It may not meet the regulatory requirements of a specific country.

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16. OTHER INFORMATION

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
Syngenta : Syngenta Occupational Exposure Limit

ACGIH / TWA : 8-hour, time-weighted average
Syngenta / TWA : Time weighted average

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

ZG / EN