

REGLONE ION

Version **Revision Date:** 09/29/2021 2.0

SDS Number: S00006835050 This version replaces all previous versions.

### **SECTION 1. IDENTIFICATION**

Product name **REGLONE ION** 

Design code : A1412H

Product Registration number : 31058

Other means of identification: No data available

Manufacturer or supplier's details

Company name of supplier

Syngenta Canada Inc.

140 Research Lane, Research Park Address

Guelph ON N1G 4Z3

Canada

Telephone 1-87-SYNGENTA (1-877-964-3682)

Telefax 1-519-823-0504

E-mail address

Emergency telephone num-

1-800-327-8633 (FAST MED)

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Corrosive to metals Category 1

Acute toxicity (Oral) Category 4

Acute toxicity (Inhalation) Category 3

Eye irritation Category 2A

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system)

Specific target organ toxicity Category 1 (Eyes)

- repeated exposure

**GHS** label elements

Hazard pictograms







Signal word Danger



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Hazard statements : H290 May be corrosive to metals.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs (Eyes) through prolonged or

repeated exposure.

Precautionary statements

Prevention:

P234 Keep only in original packaging. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

**Additional Labelling** 

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 18.1624 %

Other hazards

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS** 

Substance / Mixture : Mixture



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## Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
diquat dibromide	diquat dibro- mide	85-00-7	31.9335
Alkylamine ethoxylate	Alkylamine eth- oxylate	70955-14-5	>= 1 - < 5 *

Actual concentration or concentration range is withheld as a trade secret

### **SECTION 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 respira-

tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

Take off all contaminated clothing immediately. In case of skin contact

> 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.

Most important symptoms and effects, both acute and

delayed

inflammation of the mouth, throat and oesophagus

Gastrointestinal discomfort

Diarrhoea

Administer either activated charcoal (100g for adults or 2g/kg Notes to physician

body weight in children) or Fuller's Earth (15% solution; 1 litre

for adults or 15ml/kg body weight in children).

NOTE: The use of gastric lavage without administration of an

adsorbent has not shown any clinical benefit.

Eye contact:- Severe damage may be caused by apparently trivial contact and healing may be delayed. Medical supervi-

sion should continue until complete healing has occurred.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray



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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 prod-

ucts of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

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.

Special protective equipment

for firefighters

Wear full protective clothing and self-contained breathing ap-

paratus.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

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.

Methods and materials 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.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with skin and eyes.

When using do not eat, drink or smoke. For personal protection see section 8.

Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or

fiberglass.

Conditions for safe storage : 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 feedingstuffs. Physically and chemically stable for at least 2 years when

Further information on stor-

age stability

stored in the original unopened sales container at ambient

temperatures.



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diquat dibromide	85-00-7	TWA (Total)	0.5 mg/m3	CA AB OEL
		TWA (Res- pirable)	0.1 mg/m3	CA AB OEL
		TWA	0.5 mg/m3	CA ON OEL
		TWA (Respirable fraction)	0.1 mg/m3	CA ON OEL
		TWA (Inhalable particulate matter)	0.5 mg/m3 (the cation)	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.1 mg/m3 (the cation)	ACGIH

**Engineering measures** 

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

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

Respiratory protection

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with a half face mask

The filter class for the respirator must be suitable for the max-

imum 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.

Hand protection



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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 concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : red brown to dark brown

Odour : No data available

Odour Threshold : No data available

pH : 6.0

Concentration: 1 % w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Method: Pensky-Martens closed cup

does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper : No data available



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flammability limit

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.17 g/cm3 (25 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : soluble

Solvent: Water

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : > 650 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

Particle size : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : See section "Possibility of hazardous reactions".

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : Corrosive in contact with metals

tions

Conditions to avoid : No decomposition if used as directed.

Incompatible materials : Aluminium Mild steel

Iron

Hazardous decomposition

products

No hazardous decomposition products are known.



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### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Ingestion Inhalation Skin contact Eye contact

## **Acute toxicity**

**Product:** 

Acute oral toxicity : LD50 (Rat, female): 1,049 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 0.64 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

Remarks: Nose bleeding and soreness of the throat may result from spray mist or dust trapped on the nasal mucosa.

Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

# **Components:**

diquat dibromide:

Acute oral toxicity : LD50 (Rat, female): 399.75 mg/kg

Remarks: Lethal dose for man is approximately 4-6g of diquat (equivalent to approximately 60mg/kg). May cause nausea, vomiting, abdominal pain and diarrhoea within a few hours of swallowing. Ulceration of lips, mouth, throat and intestine may follow within 24-48 hours. Kidney failure and liver damage may occur; in severe cases circulatory collapse; coma or

death/cardiac arrest.

Acute inhalation toxicity : LC50 (Rat, male): 0.226 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 792 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Alkylamine ethoxylate:

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

single ingestion.



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Skin corrosion/irritation

**Product:** 

Species : Rabbit

Result : Mild skin irritation

**Components:** 

diquat dibromide:

Species : Rabbit

Result : Irritating to skin.
Remarks : Expert judgement

May also cause discoloration, cracking and loss of nails. Nor-

mal growth follows without delay.

Alkylamine ethoxylate:

Result : Skin irritation

Serious eye damage/eye irritation

**Product:** 

Species : Rabbit Result : Eye irritation

**Components:** 

diquat dibromide:

Species : Rabbit
Result : Eye irritation
Remarks : Expert judgement

This material has a delayed eye irritation effect. May lead to ulceration of cornea and conjunctival epithelium giving rise to secondary infection. Although healing may be slow, the injury is superficial and with proper medical care recovery will be

complete, even in severe cases.

Alkylamine ethoxylate:

Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

**Product:** 

Test Type : Buehler Test Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.



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**Components:** 

diquat dibromide:

Species : Guinea pig

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

**Components:** 

diquat dibromide:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

diquat dibromide:

Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

diquat dibromide:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

STOT - single exposure

**Components:** 

diquat dibromide:

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with respiratory tract

irritation.

STOT - repeated exposure

Components:

diquat dibromide:

Target Organs : Eyes

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

Remarks : Ocular effects (cataracts) have been reported following long

term oral exposure of laboratory animals.



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#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

### **Product:**

Toxicity to fish LC50 (Cyprinus carpio (Carp)): > 100 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 27.9 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

0.153 mg/l

Exposure time: 72 h

Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0.022 mg/l

End point: Growth rate Exposure time: 72 h

Remarks: Based on data from similar materials

ErC50 (Lemna gibba G3 (gibbous duckweed)): 0.0152 mg/l

Exposure time: 7 d

Remarks: Based on data from similar materials

NOEC (Lemna gibba G3 (gibbous duckweed)): 0.00325 mg/l

End point: Growth rate Exposure time: 7 d

Remarks: Based on data from similar materials

# Components:

diquat dibromide:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): Calculated

10.46 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): Calculated 2.49 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Navicula pelliculosa (Freshwater diatom)): Calculated

0.001148 mg/l

Exposure time: 96 h

NOEC (Navicula pelliculosa (Freshwater diatom)): Calculated

0.0005945 mg/l Exposure time: 96 h

Toxicity to fish (Chronic tox-NOEC (Pimephales promelas (fathead minnow)): Calculated



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icity) 0.04726 mg/l

Exposure time: 34 d

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): Calculated 0.0504 mg/l

Exposure time: 21 d

Persistence and degradability

**Components:** 

diquat dibromide:

Stability in water : Degradation half life: > 30 d

Remarks: Persistent in water.

**Bioaccumulative potential** 

**Components:** 

diquat dibromide:

Bioaccumulation : Remarks: Low bioaccumulation potential.

Mobility in soil

Components:

diquat dibromide:

Distribution among environmental compartments

Remarks: immobile

Stability in soil : Dissipation time: 11 - 41 y

Percentage dissipation: 50 % (DT50)

Remarks: Persistent in soil.

Other adverse effects

**Components:** 

diquat dibromide:

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).

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : Refer to the product label for specific disposal/recycling infor-

mation

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

tion.

If recycling is not practicable, dispose of in compliance with



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local regulations.

Contaminated packaging : Refer to the product label for specific disposal/recycling infor-

mation

Empty remaining contents. Triple rinse containers.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

## International Regulations

**UNRTDG** 

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.

(DIQUAT DIBROMIDE)

Class : 8
Packing group : III
Labels : 8

**IATA-DGR** 

UN/ID No. : UN 1760

Proper shipping name : Corrosive liquid, n.o.s.

(DIQUAT DIBROMIDE)

Class : 8
Packing group : III
Labels : Corrosive
Packing instruction (cargo : 856

aircraft)

Packing instruction (passen: 852

ger aircraft)

**IMDG-Code** 

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.

(DIQUAT DIBROMIDE)

Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes

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

Not applicable for product as supplied.

**National Regulations** 

**TDG** 

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.

(DIQUAT DIBROMIDE)

Class : 8 Packing group : III



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Labels : 8 ERG Code : 154

Marine pollutant : yes(DIQUAT DIBROMIDE)

### 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.

## **SECTION 15. REGULATORY INFORMATION**

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

Warning

Skull and crossbones

poison

Eye irritant Skin irritant

### The components of this product are reported in the following inventories:

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

63148-62-9

### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

#### **SECTION 16. OTHER INFORMATION**

## Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA ON OEL : Ontario Table of Occupational Exposure Limits made under

the Occupational Health and Safety Act.

ACGIH / TWA : 8-hour, time-weighted average
CA AB OEL / TWA : 8-hour Occupational exposure limit
CA ON OEL / TWA : Time-Weighted Average Limit (TWA)

AIIC - 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;



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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

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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.

CA / EN