

**MONUMENT LIQUID TURF HERBICIDE**

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : MONUMENT LIQUID TURF HERBICIDE

Design code : A14350S

**Manufacturer or supplier's details**

Company : Syngenta Australia Pty Ltd (ABN 33 002 933 717)  
www.syngenta.com.au

Address : 2-4 Lyonpark Road  
Macquarie Park NSW 2113  
Australia

Telephone : (02) 8014 5200

Emergency telephone number : 13 11 26 (Poison Information Centre)  
1800 033 111 (Syngenta)

Telefax : (02) 8876 8446

**Recommended use of the chemical and restrictions on use**

Recommended use : Herbicide

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

None known.

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

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-62-7	>= 60 -<= 100
trifloxysulfuron-sodium	199119-58-9	>= 10 -< 30
(E)-18-ethoxyoctadec-3-ene	68920-66-1	< 10
3-butoxypropan-2-ol	5131-66-8	< 10

## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

### 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 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.

### SECTION 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.

## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

Hazchem Code : •3Z

### 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 : 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.
- 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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-62-7	TWA (Mist)	5 mg/m <sup>3</sup>	AU OEL
		TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
trifloxysulfuron-sodium	199119-58-9	TWA	5 mg/m <sup>3</sup>	Syngenta

- 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

## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

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 : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection
- Remarks : No special protective equipment required.
- Eye 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.
- 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.
- Personal protective equipment should comply with relevant national standards

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : dispersion
- Colour : white to beige
- Odour : Faint solvent
- Odour Threshold : No data available
- pH : 6 - 10  
Concentration: 1 % w/v
- Melting point/range : No data available
- Boiling point/boiling range : No data available

**MONUMENT LIQUID TURF HERBICIDE**

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

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Flash point	:	114 °C	
			Method: Pensky-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	
Density	:	0.924 g/ml (20 °C)	
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	:	380 °C	
Decomposition temperature	:	No data available	
Viscosity			
Viscosity, dynamic	:	50.2 - 122 mPa.s ( 40 °C)	
		103 - 122 mPa.s ( 20 °C)	
Viscosity, kinematic	:	No data available	
Explosive properties	:	Not explosive	
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.	
Surface tension	:	30.6 mN/m, 20 °C	
Particle size	:	No data available	

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	No dangerous reaction known under conditions of normal use.

**MONUMENT LIQUID TURF HERBICIDE**

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

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tions  
Conditions to avoid : No decomposition if used as directed.  
Incompatible materials : None known.  
Hazardous decomposition products : No hazardous decomposition products are known.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Exposure routes : Ingestion  
Inhalation  
Skin contact  
Eye contact

**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat, male and female): > 5.0 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): > 5,000 mg/kg

**Components:****trifloxysulfuron-sodium:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat, male and female): > 5.03 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

**3-butoxypropan-2-ol:**

Acute oral toxicity : LD50 Oral (Rat): 2,700 mg/kg  
Acute dermal toxicity : LD50 Dermal (Rat): 2,000 mg/kg

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Result : No skin irritation

**MONUMENT LIQUID TURF HERBICIDE**Version  
7.0Revision Date:  
11.10.2021SDS Number:  
S00007497995

This version replaces all previous versions.

**Components:****trifloxysulfuron-sodium:**Species : Rabbit  
Result : No skin irritation**(E)-18-ethoxyoctadec-3-ene:**Species : Rabbit  
Result : Irritating to skin.**3-butoxypropan-2-ol:**

Result : Irritating to skin.

**Serious eye damage/eye irritation****Product:**Species : Rabbit  
Result : No eye irritation**Components:****trifloxysulfuron-sodium:**Species : Rabbit  
Result : No eye irritation**3-butoxypropan-2-ol:**

Result : Eye irritation

**Respiratory or skin sensitisation****Product:**Test Type : Buehler Test  
Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.**Components:****trifloxysulfuron-sodium:**Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.**Chronic toxicity****Germ cell mutagenicity****Components:****trifloxysulfuron-sodium:**

Germ cell mutagenicity - : Animal testing did not show any mutagenic effects.

**MONUMENT LIQUID TURF HERBICIDE**

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

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## Assessment

**(E)-18-ethoxyoctadec-3-ene:**

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

**3-butoxypropan-2-ol:**

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, Animal testing did not show any mutagenic effects.

**Carcinogenicity****Components:****trifloxysulfuron-sodium:**

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

**Reproductive toxicity****Components:****trifloxysulfuron-sodium:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**3-butoxypropan-2-ol:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**Repeated dose toxicity****Components:****trifloxysulfuron-sodium:**

Remarks : No adverse effect has been observed in chronic toxicity tests.

**Aspiration toxicity****Product:**

No aspiration toxicity classification

**Components:****Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

May be fatal if swallowed and enters airways.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 35 mg/l

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## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.47 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2 mg/l  
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.032 mg/l  
End point: Growth rate  
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.16 mg/l  
End point: Growth rate  
Exposure time: 72 h

### Components:

#### **trifloxysulfuron-sodium:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 103 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 108 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.029 mg/l  
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.00264 mg/l  
End point: Growth rate  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 9.52 mg/l  
Exposure time: 95 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.55 mg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 10

#### **(E)-18-ethoxyoctadec-3-ene:**

Toxicity to fish : LC50 (Fish): > 1 - < 10 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Invertebrates): > 1 - < 10 mg/l

## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

- Toxicity to algae/aquatic plants : EC50 (algae):  $\leq 1$  mg/l  
Exposure time: 72 h  
Remarks: Information taken from reference works and the literature.
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)):  $> 0.1 - < 1$  mg/l  
Exposure time: 30 d  
Remarks: Information taken from reference works and the literature.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)):  $> 0.01 - < 0.1$  mg/l  
Exposure time: 21 d

### Ecotoxicology Assessment

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

### 3-butoxypropan-2-ol:

- Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 1,000 mg/l  
Exposure time: 96 h

### Persistence and degradability

#### Components:

#### trifloxysulfuron-sodium:

- Biodegradability : Result: Not readily biodegradable.
- Stability in water : Degradation half life: 14 - 26 d  
Remarks: Product is not persistent.

#### (E)-18-ethoxyoctadec-3-ene:

- Biodegradability : Result: Readily biodegradable.

#### 3-butoxypropan-2-ol:

- Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

#### trifloxysulfuron-sodium:

- Bioaccumulation : Remarks: Low bioaccumulation potential.
- Partition coefficient: n- : log Pow: 1.4 (25 °C)

## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

octanol/water

log Pow: -1.6 (25 °C)

log Pow: -0.42 (25 °C)

### Mobility in soil

#### Components:

##### **trifloxysulfuron-sodium:**

Distribution among environmental compartments : Remarks: Highly mobile in soils  
 Stability in soil : Dissipation time: 5 - 13 d  
 Percentage dissipation: 50 % (DT50)  
 Remarks: Product is not persistent.

### Other adverse effects

#### Components:

##### **trifloxysulfuron-sodium:**

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).

##### **(E)-18-ethoxyoctadec-3-ene:**

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).

##### **3-butoxypropan-2-ol:**

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 : 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 : Non-returnable containers:  
 Triple rinse containers.  
 Add rinsings to spray tank  
 If recycling, replace cap and return clean containers to recycler or designated collection point. Containers marked with the drumMUSTER container logo can be taken to a drumMUS-

## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

TER collection site (02 6206 6868, [www.drummuster.org.au](http://www.drummuster.org.au)). Empty containers can be landfilled, when in accordance with the local regulations.

If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Returnable containers:

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSULFURON-SODIUM)  
 Class : 9  
 Packing group : III  
 Labels : 9

##### IATA-DGR

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (TRIFLOXYSULFURON-SODIUM)  
 Class : 9  
 Packing group : III  
 Labels : Miscellaneous  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964  
 Environmentally hazardous : yes

##### IMDG-Code

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSULFURON-SODIUM)  
 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.

#### National Regulations

##### ADG

UN number : UN 3082

## MONUMENT LIQUID TURF HERBICIDE

Version 7.0      Revision Date: 11.10.2021      SDS Number: S00007497995      This version replaces all previous versions.

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(TRIFLOXYSULFURON-SODIUM)  
Class : 9  
Packing group : III  
Labels : 9  
Hazchem Code : •3Z  
Remarks : Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the Australian Code for the Transport of Dangerous Goods (ADG). This applies when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs per ADG Special Provision AU01.

### 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

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

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 5

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

Product Registration Number : APVMA Approval No. 62571

## SECTION 16. OTHER INFORMATION

Revision Date : 11.10.2021

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

Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average  
AU OEL / TWA : Exposure standard - time weighted average

**MONUMENT LIQUID TURF HERBICIDE**

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
7.0	11.10.2021	S00007497995	

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; 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.

AU / EN