

**PRIMO 250 EC**

Version 1.0      Revision Date: 15.12.2022      SDS Number: S00049653963      This version replaces all previous versions.

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : PRIMO 250 EC

Design code : A7725M

**Manufacturer or supplier's details**

Company : Syngenta Asia Pacific Pte. Ltd

Address : No. 1 HarbourFront Avenue, #03-03 Keppel Bay Tower  
Singapore 098632

Telephone : +65 6333 6400

Emergency telephone number : +60 376 283 812

Telefax : +65 6338 1256

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

Recommended use : Plant growth regulator

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

Skin sensitisation : Sub-category 1B

Long-term (chronic) aquatic hazard : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**

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P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.

### Disposal:

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

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
trinexapac-ethyl (ISO)	95266-40-3	>= 25 -< 30
poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-	9043-30-5	>= 20 -< 30
toluene	108-88-3	>= 0.1 -< 1

## 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.
- Most important symptoms : Nonspecific

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and effects, both acute and delayed      No symptoms known or expected.

Notes to physician      :      There is no specific antidote available.  
Treat symptomatically.

### 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

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.  
Flash back possible over considerable distance.

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.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures      :      Refer to protective measures listed in sections 7 and 8.  
Keep people away from and upwind of spill/leak.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Remove all sources of ignition.  
Pay attention to flashback.

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.

### 7. HANDLING AND STORAGE

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- Advice on safe handling : Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
Use only in an area containing flame proof equipment.  
Take precautionary measures against static discharges.  
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 combustible material.  
Keep in an area equipped with sprinklers.  
Keep away from food, drink and animal feedingstuffs.  
No smoking.
- 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.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
trinexapac-ethyl (ISO)	95266-40-3	TWA	5 mg/m <sup>3</sup>	Syngenta
toluene	108-88-3	PEL (long term)	50 ppm 188 mg/m <sup>3</sup>	SG OEL
		TWA	20 ppm	ACGIH

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
toluene	108-88-3	toluene	Blood	Prior to last shift of work-week	0.05 mg/l	SG BTLV
		Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure)	0.3 mg/g Creatinine	ACGIH BEI

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**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

**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** : No special protective equipment required.

**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:  
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 appropriate professional advice.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	liquid
Colour	:	brown orange
Odour	:	unpleasant
Odour Threshold	:	No data available
pH	:	2 - 6 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	80 °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	:	0.96 - 1.00 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	250 °C
Decomposition temperature	:	No data available
Viscosity	:	

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Viscosity, dynamic	:	10.01 mPa.s ( 20 °C) 5.45 mPa.s ( 40 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Surface tension	:	28.2 - 28.5 mN/m, 20 °C
Particle size	:	No data available

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**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.

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**11. TOXICOLOGICAL INFORMATION**

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

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

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.51 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): > 4,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

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**Components:****trinexapac-ethyl (ISO):**

- Acute oral toxicity : LD50 (Rat, male and female): 4,460 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.69 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): > 4,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:**

- Acute oral toxicity : LD50 (Rat): 1,940 mg/kg

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

- Species : Rabbit  
Result : No skin irritation
- Species : Rabbit  
Result : Repeated exposure may cause skin dryness or cracking.

**Components:****trinexapac-ethyl (ISO):**

- Species : Rabbit  
Result : No skin irritation

**toluene:**

- Species : Rabbit  
Result : Irritating to skin.

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

- Species : Rabbit  
Result : No eye irritation

**Components:****trinexapac-ethyl (ISO):**

- Species : Rabbit  
Result : No eye irritation

**poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:**

- Species : Rabbit



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Result : Irreversible effects on the eye

**Respiratory or skin sensitisation****Product:**

Species : Guinea pig  
Result : The product is a skin sensitiser, sub-category 1B.

**Components:****trinexapac-ethyl (ISO):**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Result : Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity****Components:****trinexapac-ethyl (ISO):**

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

**poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:**

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

**Carcinogenicity****Components:****trinexapac-ethyl (ISO):**

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

**Reproductive toxicity****Components:****trinexapac-ethyl (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

**toluene:**

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

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**STOT - single exposure****Components:****toluene:**

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

**STOT - repeated exposure****Components:****trinexapac-ethyl (ISO):**

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

**toluene:**

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Aspiration toxicity****Components:****toluene:**

May be fatal if swallowed and enters airways.

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 2.9 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Anabaena flos-aquae (cyanobacterium)): 8.3 mg/l  
Exposure time: 96 h

ErC50 (Lemna gibba (gibbous duckweed)): 55 mg/l  
Exposure time: 7 d

NOEC (Anabaena flos-aquae (cyanobacterium)): 8.0 mg/l  
End point: Growth rate  
Exposure time: 96 h

NOEC (Lemna gibba (gibbous duckweed)): 8.0 mg/l  
End point: Frond growth  
Exposure time: 7 d

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### Components:

#### **trinexapac-ethyl (ISO):**

- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 68 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (*Americamysis*): 6.5 mg/l  
Exposure time: 96 h
- Toxicity to algae/aquatic plants : ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): 24.5 mg/l  
Exposure time: 96 h
- NOEC (*Raphidocelis subcapitata* (freshwater green alga)): 8.0 mg/l  
End point: Growth rate  
Exposure time: 96 h
- ErC50 (*Myriophyllum spicatum* (Eurasian watermilfoil)): 1.2 mg/l  
Exposure time: 14 d
- EC10 (*Myriophyllum spicatum* (Eurasian watermilfoil)): 0.011 mg/l  
End point: Growth rate  
Exposure time: 14 d
- Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 0.41 mg/l  
Exposure time: 35 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 2.4 mg/l  
Exposure time: 21 d
- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h

#### **poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:**

- Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): > 1 - 10 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 5 - 10 mg/l  
Exposure time: 48 h

### **Ecotoxicology Assessment**

- Acute aquatic toxicity : This product has no known ecotoxicological effects.
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### **toluene:**

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Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 3.78 mg/l  
Exposure time: 48 h

### Persistence and degradability

#### Components:

##### **trinexapac-ethyl (ISO):**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 3.9 - 5.5 d  
Remarks: Product is not persistent.

##### **toluene:**

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **trinexapac-ethyl (ISO):**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -2.1 (25 °C)

log Pow: -0.29 (25 °C)

log Pow: 1.5 (25 °C)

##### **toluene:**

Bioaccumulation : Remarks: Does not bioaccumulate.

### Mobility in soil

#### Components:

##### **trinexapac-ethyl (ISO):**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: < 0.2 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

### Other adverse effects

#### Components:

##### **trinexapac-ethyl (ISO):**

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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).

**toluene:**

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.

### 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**

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

**IATA-DGR**

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

**IMDG-Code**

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

#### Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations : Not applicable

Fire Safety (Petroleum and Flammable Materials) Regulations : Not applicable

## 16. OTHER INFORMATION

Revision Date : 15.12.2022

Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
 SG BTLV : Singapore. Biological Threshold Limit Values  
 SG OEL : Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.

ACGIH / TWA : 8-hour, time-weighted average  
 SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term

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AIIIC - 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; TECl - 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.

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