

**OPTIGARD TERMITE LIQUID**

Version

1.1

Revision Date:  
20.09.2017SDS Number:  
S1374597802

This version replaces all previous versions.

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : OPTIGARD TERMITE LIQUID

**Design code** : A9795B

Product code : OPTIGARD TERMITE LIQUID

**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

Telefax : +65 6338 1256

Emergency telephone number : +60 376 283 812

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

Recommended use

: Insecticide

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

Chronic aquatic toxicity : Category 1

**GHS label elements**

Hazard pictograms



Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P273 Avoid release to the environment.

**Response:**

P391 Collect spillage.

**Disposal:**

P501 Dispose of contents/ container to an approved waste

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disposal plant.

### GHS Classification

Acute aquatic toxicity

: Category 1

Chronic aquatic toxicity

: Category 1

### GHS label elements

Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: P391 Collect spillage.  
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

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
thiamethoxam (ISO)	153719-23-4	21.6
poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-	90093-37-1	1 -5
poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-	99734-09-5	1 -5
lignosulfonic acid, ethoxylated, sodium salts	68611-14-3	1 -5
thiamethoxam (ISO)	153719-23-4	>= 20 -< 25
propane-1,2,3-triol	56-81-5	>= 1 -< 10
lignosulfonic acid, ethoxylated, sodium salts	68611-14-3	>= 1 -< 10

## 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.

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		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 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 or Water spray
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
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.

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

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.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
thiamethoxam (ISO)	153719-23-4	TWA	3 mg/m <sup>3</sup>	Syngenta
thiamethoxam (ISO)	153719-23-4	TWA	3 mg/m <sup>3</sup>	Syngenta
propane-1,2,3-triol	56-81-5	PEL (long term) (Mist)	10 mg/m <sup>3</sup>	SG OEL

Engineering measures

: Containment and/or segregation is the most reliable technical  
protection measure if exposure cannot be eliminated.

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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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

## Appearance

: liquid

Odour

: weak

Odour Threshold

: No data available

pH

: 5 - 7

Concentration: 1 % w/v

**Melting point/range**

: No data available

**Boiling point/boiling range**

: No data available

Flash point

:  $\geq 100$  °C

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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	:	1.13 g/cm <sup>3</sup> (25 °C)
Solubility(ies)		
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	415 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	52.8 - 440 mPa.s (20 °C) 46.0 - 403 mPa.s (40 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Surface tension	:	39.3 mN/m, 20 °C

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

Acute oral toxicity

: LD50 (Rat, male and female): &gt; 5,000 mg/kg

Acute inhalation toxicity

: LC50 (Rat, male and female): > 5.39 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity

: LD50 (Rabbit, male and female): &gt; 2,000 mg/kg

**Components:****thiamethoxam (ISO):**

Acute oral toxicity

: LD50 (Rat, male and female): 1,563 mg/kg

Acute inhalation toxicity

: LC50 (Rat, male and female): > 3.72 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**lignosulfonic acid, ethoxylated, sodium salts:**

Acute oral toxicity

: LD50 (Rat): &gt; 5,000 mg/kg

**thiamethoxam (ISO):**

Acute oral toxicity

: LD50 (Rat, male and female): 1,563 mg/kg

Acute inhalation toxicity

: LC50 (Rat, male and female): > 3.72 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**lignosulfonic acid, ethoxylated, sodium salts:**

Acute oral toxicity

: LD50 (Rat): &gt; 5,000 mg/kg

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

Species: Rabbit

Result: No skin irritation

**Components:****thiamethoxam (ISO):**

Species: Rabbit

Result: No skin irritation

**poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Species: Rabbit

Result: No skin irritation

**lignosulfonic acid, ethoxylated, sodium salts:**

Result: Irritating to skin.

**thiamethoxam (ISO):**

Species: Rabbit

Result: No skin irritation

**propane-1,2,3-triol:**

Result: No skin irritation

**lignosulfonic acid, ethoxylated, sodium salts:**

Result: Irritating to skin.

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

Species: Rabbit

Result: No eye irritation

**Components:****thiamethoxam (ISO):**

Species: Rabbit

Result: No eye irritation

**poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Species: Rabbit

Result: Eye irritation

**lignosulfonic acid, ethoxylated, sodium salts:**

Result: Eye irritation

**thiamethoxam (ISO):**

Species: Rabbit

Result: No eye irritation



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**propane-1,2,3-triol:**

Result: No eye irritation

**lignosulfonic acid, ethoxylated, sodium salts:**

Result: Eye irritation

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

Test Type: Buehler Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

**Components:****thiamethoxam (ISO):**

Species: Guinea pig

Result: Does not cause skin sensitisation.

**thiamethoxam (ISO):**

Species: Guinea pig

Result: Does not cause skin sensitisation.

**propane-1,2,3-triol:**

Result: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity****Components:****thiamethoxam (ISO):**

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

**poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:**

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

**thiamethoxam (ISO):**

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

**Carcinogenicity****Components:****thiamethoxam (ISO):**

Carcinogenicity - Assessment : Liver tumours noted in mice that are not relevant to humans.

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**thiamethoxam (ISO):**

Carcinogenicity - Assessment : Liver tumours noted in mice that are not relevant to humans.

**Reproductive toxicity****Components:****thiamethoxam (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

**thiamethoxam (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

**STOT - single exposure****Components:****lignosulfonic acid, ethoxylated, sodium salts:**

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

**lignosulfonic acid, ethoxylated, sodium salts:**

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

**Repeated dose toxicity****Components:****thiamethoxam (ISO):**

Remarks: Did not show neurotoxicity in animal experiments.

**thiamethoxam (ISO):**

Remarks: Did not show neurotoxicity in animal experiments.

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity****Product:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 495 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 490 mg/l  
Exposure time: 48 hToxicity to algae : ErC50 (Scenedesmus capricornutum (fresh water algae)): > 416 mg/l  
Exposure time: 72 h

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**Components:****thiamethoxam (ISO):**

## Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 hToxicity to daphnia and other  
aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 hEC50 (Cloeon sp.): 0.014 mg/l  
Exposure time: 48 hEC50 (Chironomus riparius (harlequin fly)): 0.035 mg/l  
Exposure time: 48 h

## Toxicity to algae

: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 81.8  
mg/l  
Exposure time: 72 hNOEC (Pseudokirchneriella subcapitata (green algae)): 81.8  
mg/l  
End point: Growth rate  
Exposure time: 72 hM-Factor (Acute aquatic  
toxicity)

: 10

Toxicity to fish (Chronic  
toxicity): NOEC (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 28 d  
Test Type: flow-through testNOEC (Oncorhynchus mykiss (rainbow trout)): > 20 mg/l  
Exposure time: 88 d  
Test Type: Early-life StageToxicity to daphnia and other  
aquatic invertebrates  
(Chronic toxicity): NOEC (Daphnia magna (Water flea)): 100 mg/l  
Exposure time: 21 dNOEC (Chironomus riparius (Midge larvae)): 0.01 mg/l  
Exposure time: 30 dM-Factor (Chronic aquatic  
toxicity)

: 10

## Toxicity to microorganisms

: EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h**poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Toxicity to microorganisms : EC50 (Pseudomonas putida): &gt; 1,000 mg/l

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

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Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-

#### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### thiamethoxam (ISO):

##### Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 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

EC50 (Cloeon sp.): 0.014 mg/l  
Exposure time: 48 h

EC50 (Chironomus riparius (harlequin fly)): 0.035 mg/l  
Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 81.8 mg/l  
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 81.8 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)): > 100 mg/l  
Exposure time: 28 d  
Test Type: flow-through test

NOEC (Oncorhynchus mykiss (rainbow trout)): > 20 mg/l  
Exposure time: 88 d  
Test Type: Early-life Stage

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 100 mg/l  
Exposure time: 21 d

NOEC (Chironomus riparius (Midge larvae)): 0.01 mg/l  
Exposure time: 30 d

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

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Exposure time: 3 h

**Persistence and degradability****Components:****thiamethoxam (ISO):**

Biodegradability

: Result: Not readily biodegradable.

Stability in water

: Degradation half life: 11 d  
Remarks: Product is not persistent.**poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:**

Biodegradability

: Result: Not readily biodegradable.

**thiamethoxam (ISO):**

Biodegradability

: Result: Not readily biodegradable.

Stability in water

: Degradation half life: 11 d  
Remarks: Product is not persistent.**Bioaccumulative potential****Components:****thiamethoxam (ISO):**

Bioaccumulation

: Remarks: Low bioaccumulation potential.

Partition coefficient: n-  
octanol/water

: log Pow: -0.13 (25 °C)

**thiamethoxam (ISO):**

Bioaccumulation

: Remarks: Low bioaccumulation potential.

Partition coefficient: n-  
octanol/water

: log Pow: -0.13 (25 °C)

**Mobility in soil****Components:****thiamethoxam (ISO):**Distribution among  
environmental compartments

: Remarks: Moderately mobile in soils

Stability in soil

: Dissipation time: 51 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

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**thiamethoxam (ISO):**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 51 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.**Other adverse effects****Product:**

Additional ecological information : Classification of the product is based on the summation of the concentrations of classified components.

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

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Packing instruction : 964  
(passenger aircraft)

**IMDG-Code**

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

**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.**

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

**16. OTHER INFORMATION****Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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

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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; 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

Date format : dd.mm.yyyy

SG OEL : Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure Limits of Toxic Substances

SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term

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.

SG / EN