

## SAFETY DATA SHEET

### PERKADOX PD-50S-PS

Version 3.0      Revision Date: 2023/02/03      CA / EN      Date of last issue: 2021/09/06  
 Date of first issue: 2015/04/24

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#### SECTION 1. IDENTIFICATION

Product name : PERKADOX PD-50S-PS

Other means of identification : No data available

##### Manufacturer or supplier's details

Company name of supplier : Nouryon Functional Chemicals B.V.

Address : Haaksbergweg 88  
 Amsterdam 1101 BZ  
 Netherlands

Telephone : +31889840367

E-mail address : polymer.emeia@nouryon.com

Emergency telephone number : 24 hours:+31 57 06 79211, US-CHEMTREC:1-800-424-9300,  
 CA-CANUTEC:1-613-996-6666, JP: +81 (836) 74 8810, CN:  
 化学事故应急咨询电话 : +86 532 8388 9090-:  
 CHEMTREC (24-hr): (800) 424-9300 (Toll-free in the U.S.,  
 Canada and the U.S. Virgin Islands)  
 CHEMTREC (24-hr): (703) 527-3887 (For calls originating  
 elsewhere / collect calls are accepted)

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

Recommended use : Cross-linking agent

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#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS classification in accordance with the Hazardous Products Regulations

Organic peroxides : Type C

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

##### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H242 Heating may cause a fire.

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H317 May cause an allergic skin reaction.  
H360 May damage fertility or the unborn child.

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P234 Keep only in original packaging.  
P235 Keep cool.  
P240 Ground and bond container and receiving equipment.  
P261 Avoid breathing dust.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**Storage:**

P403 Store in a well-ventilated place.  
P405 Store locked up.  
P410 Protect from sunlight.  
P420 Store separately.

**Disposal:**

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

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

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Substance name : PERKADOX PD-50S-PS  
 CAS-No. : 133-14-2  
 Common Name/Synonym : No data available

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Di(2,4-dichlorobenzoyl) peroxide	Di(2,4-dichlorobenzoyl) peroxide	133-14-2	>= 48 - < 52

#### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.

If inhaled : Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
 Wash the skin immediately with soap and water.  
 If skin irritation persists, call a physician.

In case of eye contact : Rinse with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
 Never give anything by mouth to an unconscious person.  
 Obtain medical attention.

Most important symptoms and effects, both acute and delayed : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.  
 May cause an allergic skin reaction.  
 May damage fertility or the unborn child.

Notes to physician : Treat symptomatically.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

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- carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : CAUTION: reignition may occur.  
Supports combustion.  
Do not use a solid water stream as it may scatter and spread fire.  
Water spray may be ineffective unless used by experienced firefighters.  
Do not allow run-off from fire fighting to enter drains or water courses.  
Hazardous decomposition products formed under fire conditions.
- Hazardous combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).
- Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Wear respiratory protection.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
Prevent unauthorised persons entering the zone.
- Environmental precautions : Prevent product from entering drains.  
Discharge into the environment must be avoided.
- Methods and materials for containment and cleaning up : Keep wetted with water.  
Confinement must be avoided.  
Pick up and arrange disposal without creating dust.  
Collect in plastic container for disposal as hazardous waste.  
Never return spills in original containers for re-use.

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#### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Use explosion protected equipment.  
 Provide appropriate exhaust ventilation at places where dust is formed.  
 Keep away from sources of ignition - No smoking.  
 No sparking tools should be used.  
 Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps).  
 Do not cut or weld on or near this container even when empty.  
 Keep away from combustible material.
  
- Advice on safe handling : For personal protection see section 8.  
 Avoid formation of respirable particles.  
 Do not breathe vapours/dust.  
 Avoid contact with skin.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Open drum carefully as content may be under pressure.  
 Dispose of rinse water in accordance with local and national regulations.  
 Obtain special instructions before use.
  
- Conditions for safe storage : Prevent unauthorized access.  
 No smoking.  
 Keep in a well-ventilated place.  
 Electrical installations / working materials must comply with the technological safety standards.  
 Keep only in original container.  
 Store away from other materials.
  
- Further information on storage stability : No decomposition if stored and applied as directed.  
  
 Maximum storage temperature is for quality only.
  
- Maximum storage temperature: : 30 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

##### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type	Control	Basis
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		(Form of exposure)	parameters / Permissible concentration	
2,2'4,4'-Tetrachlorobiphenyl	2437-79-8	TWA	0.05 mg/m <sup>3</sup>	CA ON OEL
Carbon dioxide	124-38-9	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	CA AB OEL
		STEL	30,000 ppm 54,000 mg/m <sup>3</sup>	CA AB OEL
		TWA	5,000 ppm	CA BC OEL
		STEL	15,000 ppm	CA BC OEL
		STEV	30,000 ppm 54,000 mg/m <sup>3</sup>	CA QC OEL
		TWAEV	5,000 ppm 9,000 mg/m <sup>3</sup>	CA QC OEL
		TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH

**Engineering measures** : Explosion proof ventilation recommended.

#### Personal protective equipment

Respiratory protection : Handle in accordance with good industrial hygiene and safety practice.

Hand protection

Material : Neoprene

Material : Nitrile rubber

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

Wash contaminated clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : white

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Odour	:	Faint.
Odour Threshold	:	No data available
pH	:	Weakly acidic
Melting point	:	Decomposes before melting.
Boiling point/boiling range	:	Decomposes below the boiling point.
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Decomposition products may be flammable.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	1.25 (25 °C)
Solubility(ies)		
Water solubility	:	insoluble (20 °C)
Solubility in other solvents	:	Description: Soluble in most organic solvents.
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	Test method not applicable
Decomposition temperature	:	SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause

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decomposition below the SADT.

Self-Accelerating decomposition temperature (SADT)	:	60 °C
Viscosity		
Viscosity, dynamic	:	thixotropic
Viscosity, kinematic	:	thixotropic
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidising.
Active Oxygen Content	:	2.1 %
Organic peroxides	:	50 %

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#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Confinement must be avoided. Heat, flames and sparks.
Incompatible materials	:	Contact with the following incompatible materials will result in hazardous decomposition: Acids and bases Iron Copper Reducing agents Heavy metals Rust Do not mix with peroxide accelerators, unless under controlled processing. Use only stainless steel 316, PP, polyethylene or glass-lined equipment. For queries regarding the suitability of other materials please contact the supplier.
Hazardous decomposition	:	No decomposition if stored and applied as directed.



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products  
 Hazardous decomposition products : 2,2',4,4'-Tetrachlorobiphenyl  
 1,3-Dichlorobenzene  
 2,4-Dichlorobenzoic acid  
 Carbon dioxide

Thermal decomposition : SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

Self-Accelerating decomposition temperature (SADT) : 60 °C

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

Not classified based on available information.

##### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Acute oral toxicity : LD50 (Rat): > 2,500 mg/kg  
 Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rabbit): > 8,000 mg/kg

##### Skin corrosion/irritation

Not classified based on available information.

##### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Species : Rabbit  
 Result : Mild skin irritation

##### Serious eye damage/eye irritation

Not classified based on available information.

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#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Species : Rabbit  
 Result : Slightly irritating to eyes.

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

May cause an allergic skin reaction.

##### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Species : Rat  
 Assessment : May cause sensitisation by skin contact.

#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Species : Rat  
 Assessment : May cause sensitisation by skin contact.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Genotoxicity in vitro : Test Type: In vitro gene mutation study in mammalian cells  
 Test system: mouse lymphoma cells  
 Method: OECD Test Guideline 476  
 Result: negative

Test Type: Ames test  
 Result: positive

Test Type: Chromosome aberration test in vitro  
 Test system: Human lymphocytes  
 Method: OECD Test Guideline 473

Genotoxicity in vivo : Remarks: study scientifically unjustified

#### **Carcinogenicity**

Not classified based on available information.

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#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Remarks : No data available

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

May damage fertility or the unborn child.

#### Product:

Effects on fertility : Species: Rat, male and female  
Strain: wistar  
Application Route: Oral  
Dose: 1000 mg/kg bw/day  
Symptoms: male reproductive effects  
Target Organs: male reproductive organs

Species: Rat, male and female  
Strain: wistar  
Application Route: Oral  
Dose: 300 mg/kg bw/day  
Symptoms: male reproductive effects  
Target Organs: male reproductive organs

Reproductive toxicity - Assessment : Presumed human reproductive toxicant

#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Effects on fertility : Species: Rat, male and female  
Strain: wistar  
Application Route: Oral  
Dose: 1000 mg/kg bw/day  
Symptoms: male reproductive effects  
Target Organs: male reproductive organs

Species: Rat, male and female  
Strain: wistar  
Application Route: Oral

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Dose: 300 mg/kg bw/day  
 Symptoms: male reproductive effects  
 Target Organs: male reproductive organs

Reproductive toxicity - Assessment : Presumed human reproductive toxicant

#### STOT - single exposure

Not classified based on available information.

#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Remarks : Not classified due to data which are conclusive although insufficient for classification.

#### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

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

#### Repeated dose toxicity

#### Product:

Species : Rat  
 NOAEL : 300 mg/kg  
 Exposure time : 28 d

Species : Rat, male and female  
 Application Route : Oral  
 Exposure time : 90 d  
 Number of exposures : daily  
 Control Group : yes  
 Subsequent observation period : 28 d  
 Method : OECD Test Guideline 408  
 Target Organs : Reproductive organs  
 Symptoms : male reproductive effects

#### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Species : Rat

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NOAEL	:	300 mg/kg
Exposure time	:	28 d
Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	90 d
Number of exposures	:	daily
Control Group	:	yes
Subsequent observation period	:	28 d
Method	:	OECD Test Guideline 408
Target Organs	:	Reproductive organs
Symptoms	:	male reproductive effects

#### Aspiration toxicity

Not classified based on available information.

#### Components:

##### Di(2,4-dichlorobenzoyl) peroxide:

No aspiration toxicity classification

#### Further information

#### Product:

Remarks	:	Delayed and immediate effects and also chronic effects from short and long term exposure As stated above in the summary of toxicological information.
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## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### Components:

##### Di(2,4-dichlorobenzoyl) peroxide:

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

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plants		mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC10 (activated sludge): 500 - 1,000 mg/l Exposure time: 0.5 h Test Type: Respiration inhibition Method: Domestic OECD Guideline 209

#### Persistence and degradability

##### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Biodegradability : Result: Inherently biodegradable.  
Method: Closed Bottle test

#### Bioaccumulative potential

##### Components:

##### **Di(2,4-dichlorobenzoyl) peroxide:**

Partition coefficient: n-octanol/water : log Pow: 6 (20 °C)

#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Additional ecological information : None known.

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with

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chemical or used container.  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not burn, or use a cutting torch on, the empty drum.  
Due to the high risk of contamination recycling/recovery is not recommended.  
Follow all warnings even after the container is emptied.

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#### SECTION 14. TRANSPORT INFORMATION

##### International Regulations

###### UNRTDG

UN number : UN 3104  
Proper shipping name : ORGANIC PEROXIDE TYPE C, SOLID  
(Di(2,4-dichlorobenzoyl) peroxide)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2

###### IATA-DGR

UN/ID No. : UN 3104  
Proper shipping name : Organic peroxide type C, solid  
(Di(2,4-dichlorobenzoyl) peroxide)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : Organic Peroxides, Keep Away From Heat  
Packing instruction (cargo aircraft) : 570  
Packing instruction (passenger aircraft) : 570

###### IMDG-Code

UN number : UN 3104  
Proper shipping name : ORGANIC PEROXIDE TYPE C, SOLID  
(Di(2,4-dichlorobenzoyl) peroxide)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : no  
Remarks : (ILT/22-146581)CA-2021110502

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

Not applicable for product as supplied.

##### National Regulations

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#### **TDG**

UN number	:	UN 3104
Proper shipping name	:	ORGANIC PEROXIDE TYPE C, SOLID (Di(2,4-dichlorobenzoyl) peroxide)
Class	:	5.2
Packing group	:	II
Labels	:	5.2
ERG Code	:	146
Marine pollutant	:	no

#### **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

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

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIRC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	Not in compliance with the inventory

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.



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#### 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 BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWA EV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

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

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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

This data sheet contains changes from the previous version in section(s):

- Hazards identification
- Physical and chemical properties
- Transport information
- Regulatory information

Revision Date : 2023/02/03  
Date format : mm/dd/yyyy

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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