

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## TRIGONOX 145-E85

Version 3

Revision Date: 2021/12/17  
Date of first issue: 12.01.2015

Print Date: 2023/03/14

CN / EN

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Information  
Trade name : TRIGONOX 145-E85

Use of the Substance/Mixture : Specific use(s): Polymerization initiator  
Cross-linking agent

Company : Nouryon Functional Chemicals B.V.  
Haaksbergweg 88  
NL 1101 BZ Amsterdam  
Netherlands

Telephone : +31889840367  
Telefax :  
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-:  
Nouryon Emergency Response Centre: +31 570 679211  
National Registration Centre of Chemicals (NRCC): +86 532  
8388 9090

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	
Form	Clear liquid
Colour	colourless
Odour	Faint.
<b>GB 6944/12268</b>	
UN number	UN 3103
Proper shipping name	ORGANIC PEROXIDE TYPE C, LIQUID (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3)
Class	5.2
Packing group	Not Assigned
<b>Hazard Summary</b>	
General advice	Move out of dangerous area.

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	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Physical and chemical hazards</b>	Combustible liquid. Heating may cause a fire.
<b>Health hazards</b>	
Inhalation	Not expected to be irritating.
Skin	Not expected to be irritating.
Eyes	Not expected to be irritating.
Ingestion	Not expected to be irritating.
<b>Environmental hazards</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## GHS Classification

Flammable liquids, Category 4

Organic peroxides, Type C

Short-term (acute) aquatic hazard, Category 2

Long-term (chronic) aquatic hazard, Category 2

## GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H227 Combustible liquid.  
H242 Heating may cause a fire.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P220 Keep/ Store away from clothing/ combustible materials.  
P234 Keep only in original container.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P391 Collect spillage.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P410 Protect from sunlight.  
P420 Store away from other materials.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

## Physical and chemical hazards

Combustible liquid.

Heating may cause a fire.

## Health hazards

Inhalation

: Not expected to be irritating.

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Skin : Not expected to be irritating.

Eyes : Not expected to be irritating.

Ingestion : Not expected to be irritating.

Further information : No further data available.

## **Environmental hazards**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## **Other hazards**

No further data available.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

### Hazardous substance

Chemical name	CAS-No.	Classification	Concentration [%]
2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3	1068-27-5	Flam. Liq. 3; H226 Org. Perox. B; H241 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	>= 83 - <= 86

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- Inhalation : If breathed in, move person into fresh air.
- Skin contact : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water.
- 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.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### Notes to physician

- Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
- Treatment : Treat symptomatically.

## 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting / Specific hazards : CAUTION: reignition may occur.  
Supports combustion.

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arising from the chemical	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.
Combustion products	: Fire will produce smoke containing hazardous combustion products (see section 10). Carbon oxides
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
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.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	: Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Emergency measures on accidental release	: 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 for cleaning up / Methods for containment	: Soak up with inert absorbent material and dispose of as hazardous waste. Use only inert inorganic material such as vermiculite or perlite as absorbent. Keep mixture of absorbent material and spilled product wetted with water. Confinement must be avoided. Never return spills in original containers for re-use.
Reference to other sections	: For disposal considerations see section 13.  For personal protection see section 8.

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## 7. HANDLING AND STORAGE

### Handling

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- Advice on safe handling : For personal protection see section 8.  
Do not smoke.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Use explosion protected equipment.  
Avoid formation of aerosol.  
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.  
Take measures to prevent the build up of electrostatic charge.  
Keep away from combustible material.
- Temperature class : It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded.
- Storage**
- Requirements for storage areas and containers : 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.
- Minimum storage temperature: : Avoid temperatures below:  
10 °C
- Maximum storage temperature: : 30 °C
- Other data : If product freezes or separates, contact the manufacturer.  
  
Maximum storage temperature is for quality only.

## 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 (Form of exposure)	Control parameters / Permissible concentration	Basis
tert-Butanol	75-65-0	TWA	100 ppm	ACGIH
		TWA	100 ppm	ACGIH
Acetone	67-64-1	PC-TWA	300 mg/m <sup>3</sup>	CN OEL
		PC-STEL	450 mg/m <sup>3</sup>	CN OEL
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH

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		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH

**Engineering measures** : Explosion proof ventilation recommended.  
Effective exhaust ventilation system

## Personal protective equipment

Respiratory protection : Filter A

Eye/face protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hand protection

Material : Neoprene

Material : Nitrile rubber

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

## Environmental exposure controls

General advice : Prevent product from entering drains.  
Discharge into the environment must be avoided.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear liquid

Colour : colourless

Odour : Faint.

Odour Threshold : No data available

pH : Not applicable

Melting point :  $\leq -30$  °C

Boiling point/boiling range : Decomposes below the boiling point.

Flash point : 78 °C  
Method: closed cup

Evaporation rate : No data available

Flammability (liquids) : Decomposition products may be flammable.

Upper explosion limit / Upper flammability limit : No data available

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Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	< 1 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	0.88 (20 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	immiscible (20 °C)
Solubility in other solvents	:	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 decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT)	:	80 °C
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidising.
Active Oxygen Content	:	9.5 %
Organic peroxides	:	85 %

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

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Confinement must be avoided. Heat, flames and sparks.
Materials to avoid	:	Contact with the following incompatible materials will result in



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	<p>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.</p>
Hazardous decomposition products	: tert-Butanol Acetone Methane 2,5-Dimethyl-3-hexyne-2,5-diol
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.
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: No dangerous reaction known under conditions of normal use.
Self-Accelerating decomposition temperature (SADT)	: 80 °C

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Hazard Summary

Acute toxicity	: Not classified based on available information.
Skin corrosion/irritation	: Not classified based on available information.
Serious eye damage/eye irritation	: Not classified based on available information.
Respiratory or skin sensitisation	: Respiratory sensitisation: Not classified based on available information. Skin sensitisation: Not classified based on available information.
Germ cell mutagenicity	: Not classified based on available information.

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Carcinogenicity	:	Not classified based on available information.
Reproductive toxicity	:	Not classified based on available information.
STOT - single exposure	:	Not classified based on available information.
STOT - repeated exposure	:	Not classified based on available information.
Aspiration hazard	:	Not classified based on available information.

## Potential Health Effects

Inhalation	:	Not expected to be irritating.
Skin	:	Not expected to be irritating.
Eyes	:	Not expected to be irritating.
Ingestion	:	Not expected to be irritating.
Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

## Toxicology Assessment

Further information	:	No further data available.
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## TOXICOLOGY DATA FOR THE COMPONENTS:

### Test result

#### **Component: 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3**

Acute oral toxicity	:	LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 423
Acute dermal toxicity	:	LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 402
Skin irritation	:	Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404
Eye irritation	:	Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405
Sensitisation	:	Maximisation Test Species: Guinea pig Result: Does not cause skin sensitisation.

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	Method: OECD Test Guideline 406
Repeated dose toxicity	: Species: Rat, male and female NOAEL: 150 mg/kg bw/day Application Route: Oral Exposure time: 90 d Method: OECD Test Guideline 408 GLP: yes
Germ cell mutagenicity Genotoxicity in vitro	: Ames test Salmonella typhimurium Result: negative Method: OECD Test Guideline 471  In vitro mammalian cell gene mutation test Chinese hamster ovary cells Result: negative Method: OECD Test Guideline 476  Chromosome aberration test in vitro Human lymphocytes Result: negative Method: OECD Test Guideline 473
Reproductive toxicity/Development/Teratog enicity	: Species: Rat Strain: Sprague-Dawley Application Route: Oral General Toxicity Maternal: No observed adverse effect level: 300 mg/kg bw/day Developmental Toxicity: No observed adverse effect level: 300 mg/kg bw/day Method: OECD Test Guideline 414 GLP: yes Read-across from supporting substance (structural analogue or surrogate).
Aspiration toxicity	: No aspiration toxicity classification

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### COMPONENTS:

#### Test result

**Component: 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3**

## Ecotoxicity effects

- Toxicity to fish : NOEC: 100 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Test Type: semi-static test  
Method: OECD Test Guideline 203
- LC50: > 100 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates : EC50: > 5.31 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Test Type: static test  
Method: OECD Test Guideline 202  
Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to algae : NOEC: 1.88 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Test Type: static test  
Method: OECD Test Guideline 201  
Estimated value
- EC50: 6.17 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Test Type: static test  
Method: OECD Test Guideline 201  
Estimated value
- Toxicity to bacteria : NOEC: > 1,000 mg/l  
Exposure time: 3 h  
Species: activated sludge  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209
- EC50: > 1,000 mg/l  
Exposure time: 3 h  
Species: activated sludge  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209
- Elimination information (persistence and degradability)**
- Biodegradability : Test Type: Ready biodegradability  
Inoculum: activated sludge, non-adapted  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 140 d

Method: OECD Test Guideline 301D  
GLP: yes

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## 13. DISPOSAL CONSIDERATIONS

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with 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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## 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

- UN/ID No. : UN 3103  
Proper shipping name : Organic peroxide type C, liquid  
(2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3)  
Class : 5.2  
Subsidiary risk : HEAT  
Packing group : Not Assigned  
Labels : 5.2 (HEAT)  
Packing instruction (cargo aircraft) : 570  
Packing instruction (passenger aircraft) : 570  
Environmentally hazardous : yes

#### IMDG-Code

- UN number : UN 3103  
Proper shipping name : ORGANIC PEROXIDE TYPE C, LIQUID  
(2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3)  
Class : 5.2  
Packing group : Not Assigned  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : yes  
(2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3)

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

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

- UN number : UN 3103

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Proper shipping name : ORGANIC PEROXIDE TYPE C, LIQUID  
(2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3)  
Class : 5.2  
Packing group : Not Assigned  
Labels : 5.2  
Environmentally hazardous : yes

## 15. REGULATORY INFORMATION

### Notification status

TCSI : YES. On the inventory, or in compliance with the inventory  
TSCA : YES. All substances listed as active on the TSCA inventory  
AIIC : YES. On the inventory, or in compliance with the inventory  
DSL : YES. All components of this product are on the Canadian DSL  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
TECI : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

### National regulatory information

Hazardous Chemicals for Priority Management under SAWS : Not applicable

China Severely Restricted Toxic Chemicals for Import and Export : Not applicable

Catalogue of Hazardous Chemicals : 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3  
Listed

### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)  
Category Threshold quantity  
Organic peroxides 50 t

Further information : none

## 16. OTHER INFORMATION

### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H241 : Heating may cause a fire or explosion.  
H401 : Toxic to aquatic life.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

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CN OEL	:	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CN OEL / PC-TWA	:	Permissible concentration - time weighted average
CN OEL / PC-STEEL	:	Permissible concentration - short term exposure limit

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

## Further information

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

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

Hazards identification  
Composition/information on ingredients  
Handling and storage  
Toxicological information  
Ecological information  
Transport information

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

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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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