

# SAFETY DATA SHEET

according to the Global Harmonized System and US regulation

## TRIGONOX 101

Version 1

Revision Date 08/25/2016

Print Date 08/02/2017

US / Z8

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TRIGONOX 101

Product Use Description : Specific use(s): Polymerization initiator  
Cross-linking agent

Company : Akzo Nobel Functional Chemicals LLC  
525 West Van Buren  
Chicago IL 60607-3823  
United States

Telephone : +18008287929

Fax : +13125447188

E-mail address : RegulatoryAffairs@akzonobel.com

Emergency telephone : 24 hours:+31 57 06 79211, CHEMTREC-USA:1-800-424-9300,  
CANUTEC-CANADA:1-613-996-6666, 化学事故应急咨询电话 :  
国家化学事故应急响应中心 +86 532 8388 9090

### 2. HAZARDS IDENTIFICATION


#### Emergency Overview

Appearance	liquid
Color	light yellow, clear
Odor	characteristic

#### GHS Classification

Flammable liquids, Category 4  
Organic peroxides, Type C  
Skin irritation, Category 2

#### GHS label elements

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H242 Heating may cause a fire.  
H315 Causes skin irritation.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P220 Keep away from dirt, rust, chemicals in particular.

P234 Keep only in original container.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

## Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

## 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 in accordance with local regulation.

## Potential Health Effects

Inhalation	: Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Skin	: Causes skin irritation.
Eyes	: May cause eye irritation.
Ingestion	: May cause irritation of the mucous membranes.
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.

## Carcinogenicity:

IARC	: No ingredient 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 ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration [%]
2,5-DIMETHYL-2,5-DI(tert-BUTYLPEROXY)HEXANE	78-63-7	Flam. Liq. 4; H227 Org. Perox. C; H242 Skin Irrit. 2; H315	92 - 100

2,5-Dimethyl-2,5-di(2-ethylhexanoylperoxy)hexane, neat

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 material safety data sheet to the doctor in attendance.
Inhalation	: If breathed in, move person into fresh air. Consult a physician after significant exposure.
Skin contact	: Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. If skin irritation persists, call a physician.
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. Obtain medical attention.

#### 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.
Risks	: Causes skin irritation.
Treatment	: Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting / Specific hazards arising from the chemical	: 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. Heating may cause decomposition with release of toxic fumes.
Combustion products	: Fire will produce smoke containing hazardous combustion products (see section 10).
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Use water spray to cool unopened containers.

See also Section 9. Physical and chemical properties: Safety data

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions	: Prevent product from entering drains.
Methods for cleaning up / Methods for containment	: Keep wetted with water. Soak up with inert absorbent material and dispose of as hazardous waste. Confinement must be avoided. Never return spills in original containers for re-use.
Additional advice	: For personal protection see section 8.

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## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling	: For personal protection see section 8. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Open drum carefully as content may be under pressure.
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 (50 °F)

Maximum storage temperature: : 40 °C (104 °F)

Other data : If product freezes or separates, contact Akzo Nobel  
  
No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Contains no substances with occupational exposure limit values.

### Occupational exposure limits of decomposition products

Decomposition products	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Acetone	67-64-1, 67-64-1	TWA	250 ppm	2015-04-10	ACGIH	
	Further information	:	CNS impair: Central Nervous System impairment URT irr: Upper Respiratory Tract irritation eye irr: Eye irritation *: 2015 Adoption BEI: Substances for which there is a Biological Exposure Index or Indices (see BEI® section) A4: Not classifiable as a human carcinogen			
		STEL	500 ppm	2015-04-10	ACGIH	
	Further information	:	CNS impair: Central Nervous System impairment URT irr: Upper Respiratory Tract irritation eye irr: Eye irritation *: 2015 Adoption BEI: Substances for which there is a Biological Exposure Index or Indices (see BEI® section) A4: Not classifiable as a human carcinogen			
		TWA	250 ppm 590 mg/m <sup>3</sup>	2013-10-08	NIOSH REL	
		TWA	1,000 ppm	1997-08-04	OSHA Z-1	

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			2,400 mg/m3			
	Further information	:	(b): The value in mg/m3 is approximate.			
		TWA	750 ppm 1,800 mg/m3	1989-01-19	OSHA P0	
		STEL	1,000 ppm 2,400 mg/m3	1989-01-19	OSHA P0	
	Further information	:	h: The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.			
		STEL	750 ppm 1,780 mg/m3	2014-11-26	CAL PEL	
		C	3,000 ppm	2014-11-26	CAL PEL	
		PEL	500 ppm 1,200 mg/m3	2014-11-26	CAL PEL	
tert-Butanol	75-65-0, 75-65-0	TWA	100 ppm	2007-01-01	ACGIH	
	Further information	:	CNS impair: Central Nervous System impairment A4: Not classifiable as a human carcinogen			
		TWA	100 ppm 300 mg/m3	2013-10-08	NIOSH REL	
		ST	150 ppm 450 mg/m3	2013-10-08	NIOSH REL	
		TWA	100 ppm 300 mg/m3	1997-08-04	OSHA Z-1	
	Further information	:	(b): The value in mg/m3 is approximate.			
		TWA	100 ppm 300 mg/m3	1989-01-19	OSHA P0	
		STEL	150 ppm 450 mg/m3	1989-01-19	OSHA P0	
		PEL	100 ppm 300 mg/m3	2014-11-26	CAL PEL	
		STEL	150 ppm 450 mg/m3	2014-11-26	CAL PEL	

## Engineering measures

Explosion proof ventilation recommended.

Effective exhaust ventilation system

## Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection : Glove material: butyl-rubber

: Glove material: Neoprene

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.  
Filter A

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.

## Environmental exposure controls

General advice : Prevent product from entering drains.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid

Color : light yellow  
clear

Odor : characteristic

Odor Threshold : No data available

### Safety data

pH : No data available

Melting point : 1 - 10 °C

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

Flash point : 68 °C  
at 1,013 hPa

Evaporation rate : Not applicable

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Combustible liquid.

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Vapor pressure : < 0.01 hPa at 20 °C

Relative vapor density : No data available

Relative density : 0.872 at 20 °C

Water solubility : immiscible

Solubility in other solvents : organic solvent  
soluble

Partition coefficient: n-octanol/water : log Pow: 7.34  
at 20 °C

Autoignition 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, dynamic	: 7.35 mPa.s at 20 °C
Viscosity, kinematic	: 8.54 mm <sup>2</sup> /s at 20 °C
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Active Oxygen Content	: 10.14 %
Organic peroxides	: > 92 %

This material 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 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 products	: Acetone tert-Butanol Methane tert-Amyl alcohol Ethane Carbon oxides



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 (176 °F)

## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Toxicology Assessment

Acute effects	: Causes skin irritation.
Further information	: No further data available.

#### Test result

Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity
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#### Carcinogenicity:

IARC	: No ingredient 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 ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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.

#### Component: 2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE

Acute effects	: Causes skin irritation.
Further information	: No further data available.

#### Component: 2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE

Acute oral toxicity	: LD50: > 2,000 mg/kg Species: Rat
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	Method: OECD Test Guideline 401
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 402
Skin irritation	: Result: Irritating to skin. Classification: Irritating to skin.
Repeated dose toxicity	: Species: Rat, male and female Application Route: Oral Exposure time: 90 d () NOEL: 150 mg/kg Method: OECD Test Guideline 408
Germ cell mutagenicity Genotoxicity in vitro	: Ames test Result: negative Method: OECD Test Guideline 471  Chromosome aberration test in vitro Result: negative Method: OECD Test Guideline 476
Genotoxicity in vivo	: Micronucleus test Method: OECD Test Guideline 474 Result: negative
Reproductive toxicity/Development/Teratog enicity	: Species: Rat Strain: Sprague-Dawley Application Route: Oral General Toxicity Maternal: NOAEL (No observed adverse effect level): 300 mg/kg body weight/day Developmental Toxicity: No observed adverse effect level F1: 300 mg/kg body weight/day Method: OECD Test Guideline 414
Target Organ Systemic Toxicant - Repeated exposure	: Routes of exposure: Oral The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

Additional ecological information : None known.

## Further information on ecology

### Hazardous to the ozone layer

Regulation	: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

### Component: 2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE

Acute aquatic toxicity	: No toxicity at the limit of solubility.
Chronic aquatic toxicity	: This product has no known ecotoxicological effects.
Additional ecological information	: None known.

### Component: 2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE

### Ecotoxicity effects

Toxicity to fish	: LC50: 4.5 mg/l Exposure time: 96 h Species: Fish No toxicity at the limit of solubility.
Toxicity to algae	: IC50: > 0.236 mg/l Exposure time: 72 h Species: algae No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC50: > 0.0065 mg/l Exposure time: 21 d Species: Daphnia No toxicity at the limit of solubility.

### Elimination information (persistence and degradability)

Biodegradability	: The product is not classified as dangerous to the environment, but contains substances not readily biodegradable.
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## 13. DISPOSAL CONSIDERATIONS

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Hazardous waste 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.

## 14. TRANSPORT INFORMATION

### International Regulation

#### IATA-DGR

UN/ID No.	: UN 3103
Proper shipping name	: Organic peroxide type C, liquid (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane)
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	: no

#### IMDG-Code

UN number	: UN 3103
Proper shipping name	: ORGANIC PEROXIDE TYPE C, LIQUID (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane)
Class	: 5.2
Packing group	: Not Assigned
Labels	: 5.2
EmS Code	: F-J, S-R
Marine pollutant	: no

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

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number	: UN 3103
Proper shipping name	: Organic peroxide type C, liquid (2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane, >92%)
Class	: 5.2
Packing group	: II
Labels	: 5.2
ERG Code	: 146
Marine pollutant	: no
Reportable Quantity	: This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

## 15. REGULATORY INFORMATION

### Notification status

TSCA	: YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.
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DSL	: YES. All components of this product are on the Canadian DSL
AICS	: YES. On the inventory, or in compliance with the inventory
NZIoC	: NO. On the inventory, or in compliance with the inventory
ENCS	: NO. Not 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

For explanation of abbreviations, see section 16.

## **TSCA list**

TSCA 5(a)(2)	: No substances are subject to a Significant New Use Rule.
TSCA 12(b)	: No substances are subject to TSCA 12(b) export notification requirements.

## **EPCRA - Emergency Planning and Community Right-to-Know**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

<b>SARA 311/312 Hazards</b>	: Fire Hazard Reactivity Hazard Acute Health Hazard
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<b>SARA 302</b>	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
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<b>SARA 313</b>	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
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## **Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

## **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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## **California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

## 16. OTHER INFORMATION

### Full text of H-Statements

H227 : Combustible liquid.  
H242 : Heating may cause a fire.  
H315 : Causes skin irritation.

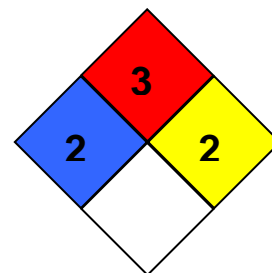
### Full text of other abbreviations

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 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

### Further information

**HMIS Classification** : Health Hazard: 2  
Flammability: 3  
Physical hazards: 2

**NFPA Classification** : Health Hazard: 2  
Fire Hazard: 3  
Reactivity Hazard: 2



## Notification status explanation

REACH	1907/2006 (EU)
TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)

## Further information

Revision Date 08/25/2016

The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material 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.