SAFETY DATA SHEET
PERKADOX 14S-FL

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

Product identifier : PERKADOX 14S-FL

:

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Cross-linking agent

Details of the supplier of the safety data sheet

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

Supplier's address : Haaksbergweg 88
Amsterdam 1101 BZ

Supplier's telephone number : +31889840367

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

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Organic peroxides : Type D

Long-term (chronic) aquatic hazard : Category 4

Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H242 Heating may cause a fire.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements :

Prevention:

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.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

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.
P410 Protect from sunlight.
P420 Store separately.

Disposal:

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

Other hazards

Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : 1,3-Bis(tert-butylperoxyisopropyl)benzene

CAS-No. : 2212-81-9

Components

Systematic chemical name	CAS-No.	Classification	Concentration or range (% w/w)
1,3-Bis(tert-butylperoxyisopropyl)benzene	2212-81-9	Org. Perox. D; H242 Aquatic Chronic 4; H413	90 -100
1,3-Bis(tert-butylperoxyisopropyl)benzene	2212-81-9	Org. Perox. D; H242 Aquatic Chronic 4; H413	90 -100

For explanation of abbreviations see section 16.

The following substances have multiple CAS-number

1,3-Bis(tert-butylperoxyisopropyl)benzene : 25155-25-3

1,3-Bis(tert-butylperoxyisopropyl)benzene	:	25155-25-3

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.
Inhalation	:	Remove to fresh air. Rinse nose and mouth with water.
Skin contact	:	Take off contaminated clothing and shoes immediately. Wash the skin immediately with soap and 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.
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.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Fire will produce smoke containing hazardous combustion products (see section 10).
Related specific hazards	:	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.

		Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Hazardous decomposition products formed under fire conditions.
Specific extinguishing methods	:	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.
Recomendations for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation. 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 material 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.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling	:	For personal protection see section 8. Avoid creating dust. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Do not smoke. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Operational and technical measures	:	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.

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

Conditions for safe storage, including any incompatibilities

Conditions for safe storage : No smoking.
Keep in a dry place.
Electrical installations / working materials must comply with the technological safety standards.
Store at room temperature in the original container.
Keep only in original container.
Store away from other materials.

Further information on storage stability : Maximum storage temperature is for quality only.

Maximum storage temperature: : 20 °C

Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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	LPP	438 ppm 1.040 mg/m3	CL OEL

	Further information: Substances classified as 'A.4' are under consideration but have not yet valid information to be classified as carcinogenic to humans or laboratory animals, so the exposure of workers to them should be maintained at the lowest possible level.			
		LPT	750 ppm 1.782 mg/m3	CL OEL
	Further information: Substances classified as 'A.4' are under consideration but have not yet valid information to be classified as carcinogenic to humans or laboratory animals, so the exposure of workers to them should be maintained at the lowest possible level.			
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH

Appropriate technical controls : Explosion proof ventilation recommended.
Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Skin protection : Protective suit

Hand protection
Material : Neoprene

Material : Nitrile rubber

Respiratory protection : Half mask with a particle filter P2 (EN 143)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance : flakes

Colour : white

Odour : Faint.

Odour Threshold : No data available

pH : neutral

Melting point	:	41,5 - 51 °C
Boiling point	:	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	:	0,6 hPa (100 °C) 0,000091 hPa (25 °C) Method: Calculation method
Vapour density	:	Not applicable
Relative density	:	1,042 (20 °C)
Solubility(ies) Water solubility	: :	 insoluble (20 °C)
Partition coefficient: n-octanol/water	:	log Pow: 7,3 (20 °C)
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.
Viscosity Viscosity, kinematic	: :	 Not applicable
Explosive properties	:	Not explosive

Oxidizing properties	:	Not classified as oxidising.

Other information

Self-Accelerating decomposition temperature (SADT)	:	80 °C
Active Oxygen Content	:	9,1 %
Organic peroxides	:	96 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air.
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 products	:	No decomposition if stored and applied as directed.
Hazardous decomposition products	:	tert-Butanol Acetone Methane Bis(2-hydroxyisopropyl)benzene 2-(3-Acetylphenyl)-2propanol 2-(4-Acetylphenyl)-2propanol
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)	:	80 °C

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose.
Acute inhalation toxicity	:	Remarks: study scientifically unjustified
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose.
Acute inhalation toxicity	:	Remarks: study scientifically unjustified
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Method	:	OECD Test Guideline 404
Result	:	No skin irritation

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage or eye irritation

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Method	:	OECD Test Guideline 405
Result	:	No eye irritation

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Method	:	OECD Test Guideline 405
Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 429

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 429

Germ cell mutagenicity

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Result: Not mutagenic.

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Result: Not mutagenic.

Carcinogenicity

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Remarks : No data available

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Remarks : No data available

Reproductive toxicity

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
General Toxicity - Parent: NOAEL: 100 mg/kg bw/day
Method: OECD Test Guideline 422
GLP: yes

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
General Toxicity - Parent: NOAEL: 100 mg/kg bw/day
Method: OECD Test Guideline 422
GLP: yes

Specific particular organ toxicity - single exposure

Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:
Remarks : No data available

1,3-Bis(tert-butylperoxyisopropyl)benzene:
Remarks : No data available

Specific particular organ toxicity - repeated exposure
Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

1,3-Bis(tert-butylperoxyisopropyl)benzene:
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Inhalation hazard
Not classified based on available information.

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:
No aspiration toxicity classification

1,3-Bis(tert-butylperoxyisopropyl)benzene:
No aspiration toxicity classification

Further information

Product:
Remarks : No further data available.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:
Toxicity to fish : LC50: 750 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates	:	EC0: > 1 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2. GLP: yes Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	EC0 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	:	NOEC (activated sludge): > 1.000 mg/l Exposure time: 0,5 h Test Type: Respiration inhibition Method: Domestic OECD Guideline 209

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	May cause long lasting harmful effects to aquatic life.

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Toxicity to fish	:	LC50: 750 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC0: > 1 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2. GLP: yes Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	EC0 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	:	NOEC (activated sludge): > 1.000 mg/l Exposure time: 0,5 h Test Type: Respiration inhibition Method: Domestic OECD Guideline 209

Ecotoxicology Assessment

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

Chronic aquatic toxicity	:	May cause long lasting harmful effects to aquatic life.

Persistence and degradability

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Biodegradability	:	Result: Not readily biodegradable. Method: OECD Test Guideline 301D Remarks: Not readily biodegradable. Read-across from supporting substance (structural analogue or surrogate).

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Biodegradability	:	Result: Not readily biodegradable. Method: OECD Test Guideline 301D Remarks: Not readily biodegradable. Read-across from supporting substance (structural analogue or surrogate).

Bioaccumulative potential

Components:

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Bioaccumulation	:	Remarks: No bioaccumulation is expected.
Partition coefficient: n-octanol/water	:	log Pow: 7,3 (20 °C)

1,3-Bis(tert-butylperoxyisopropyl)benzene:

Bioaccumulation	:	Remarks: No bioaccumulation is expected.
Partition coefficient: n-octanol/water	:	log Pow: 7,3 (20 °C)

Mobility in soil

No data available

Other adverse effects

Product:

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

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues	:	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, and contaminated material	:	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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 3106
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, SOLID (Di(tert-butylperoxyisopropyl)benzene)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2

IATA-DGR

UN/ID No.	:	UN 3106
Proper shipping name	:	Organic peroxide type D, solid (Di(tert-butylperoxyisopropyl)benzene)
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 3106
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, SOLID (Di(tert-butylperoxyisopropyl)benzene)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R

Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations

NCh382

UN number	:	UN 3106
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, SOLID (Di(tert-butylperoxyisopropyl)benzene)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	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.

SECTION 15. REGULATORY INFORMATION

National Regulations

Chile. Decree 190. Carcinogenic Substances, Hazardous Waste Management.	:	Not applicable
Decree 1358 - Establishment of rules governing the control measures of precursors and essential chemicals.	:	Not applicable
Resolution 408/16 Exempt, Approving List of Health Hazardous Substances	:	Included in list of Article 3, item a), Classification according to NCh382

Other regulations

Decree 43/2015, Approving Regulation on Storage of Hazardous Substances
NCh 2245:2021 Safety data sheet for chemical products - Content and order of sections
NCh 2190:2019 Land transport of dangerous goods - Hazard identification marks
NCh 382:2021 Dangerous Goods – Classification
Decree 57 of 2019, Regulation on Classification, Labeling, and Notification of Hazardous Chemicals and Mixtures
D.S. 148/03 Sanitary Regulation on hazardous wastes handling
D.S. 298/94 Regulation on transport of hazardous cargo on streets and roads
D.S. 594/99 Regulation on sanitary and environmental basic conditions at work places

International Regulations

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
AIIC	:	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

The receiver should verify the possible existence of legal regulations applicable to chemical.

SECTION 16. OTHER INFORMATION

Revision Date	:	2023.05.05
Date format	:	yyyy/mm/dd

Full text of H-Statements

H242	:	Heating may cause a fire.
H413	:	May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Org. Perox.	:	Organic peroxides
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CL OEL	:	Chile. Regulation on basic sanitary and environmental conditions in the workplace
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CL OEL / LPP	:	Time Weighted Limit Value
CL OEL / LPT	:	Short Term Limit 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 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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