

according to GB/T 16483 and GB/T 17519

PERKADOX 16

Version Revision Date:

3.0 Date of last issue: 2021/06/07
Date of first issue: 2015/01/12

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PERKADOX 16

:

Manufacturer or supplier's details

Company : Nouryon Functional Chemicals B.V.

Haaksbergweg 88 NL 1101 BZ Amsterdam

Netherlands

Address : Haaksbergweg 88

Amsterdam 1101 BZ

Telephone : +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-:

Nouryon Emergency Response Centre: +31 570 679211 National Registration Centre of Chemicals (NRCC): +86 532

8388 9090

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

Recommended use of the chemical and restrictions on use

Recommended use : Polymerization initiator

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: powderColour: whiteOdour: Faint.

Heating may cause a fire. May cause an allergic skin reaction. Harmful to aquatic life with long lasting offeets

lasting effects.

GHS Classification

Organic peroxides : Type C



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Skin sensitisation : Category 1

Short-term (acute) aquatic

hazard

Category 3

Long-term (chronic) aquatic

hazard

Category 3

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H242 Heating may cause a fire.

H317 May cause an allergic skin reaction.

H412 Harmful 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.

P235 Keep cool.

P261 Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

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

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before

euse.

P370 + P378 In case of fire: Use water spray, alcohol-resistant

foam, dry chemical or carbon dioxide to extinguish.

Storage:

P410 Protect from sunlight.



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P411 Store at temperatures not exceeding 30°C/86°F.

P420 Store away from other materials.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Physical and chemical hazards

Heating may cause a fire.

Health hazards

May cause an allergic skin reaction.

Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Other hazards which do not result in classification

Dust can form an explosive mixture in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : bis(4-tert-butylcyclohexyl) peroxydicarbonate

CAS-No. : 15520-11-3

Synonyms : bis(4-tert-butylcyclohexyl) peroxydicarbonate

Components

Chemical name	CAS-No.	Concentration (% w/w)
Di(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3	>= 94 -<= 97

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 : Remove to fresh air.

Keep patient warm and at rest. Rinse nose and mouth with water.

In case of skin contact : Take off contaminated clothing and shoes immediately.



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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.

Notes to physician : 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

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.

Hazardous combustion

products

: Fire will produce smoke containing hazardous combustion

products (see section 10).



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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.

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

Wear respiratory protection. Avoid dust formation.

Avoid breathing dust.

Ensure adequate ventilation. Remove all sources of ignition.

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.

Prevention of secondary

hazards

Evacuate personnel to safe areas.

Only qualified personnel equipped with suitable protective

equipment may intervene.

Prevent unauthorised persons entering the zone.

7. HANDLING AND STORAGE

Handling

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).



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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.

Keep away from heat/ sparks/ open flames/ hot surfaces. No

smoking.

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.

Avoidance of contact

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.

Storage

Conditions for safe storage

No smoking.

Keep in a dry place.

Observe label precautions.

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.

No decomposition if stored and applied as directed.



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Maximum storage

temperature:

: 20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Dust 4 mg/m3

Value type (Form of exposure): TWA (Total dust)

Basis: CN OEL

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
Carbon dioxide	124-38-9	PC-TWA	9,000 mg/m3	CN OEL
		PC-STEL	18,000 mg/m3	CN OEL
		TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH

Explosion proof ventilation recommended. **Engineering measures**

Provide appropriate exhaust ventilation at places where dust

is formed.

Personal protective equipment

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

Eye/face protection Tightly fitting safety goggles

Skin and body protection Protective suit

Hand protection

Material : Neoprene

Nitrile rubber Material

Hygiene measures Handle in accordance with good industrial hygiene and safety

When using do not eat or drink. When using do not smoke.



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Wash hands before breaks and at the end of workday.

Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : white

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 : < 0.8 hPa (60 °C)

Relative vapour density : Not applicable

Relative density : 1.13 (20 °C)

Bulk density : 450 - 480 kg/m3 (20 °C)

Solubility(ies)



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Water solubility

: insoluble (20 °C)

Solubility in other solvents

Description: Soluble in most organic solvents.

Partition coefficient: n-

octanol/water

log Pow: 8.34 estimated

estimateu

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)

40 °C

Viscosity

Viscosity, dynamic

Not applicable

Viscosity, kinematic

Not applicable

Explosive properties

: Not explosive

Oxidizing properties

: Not classified as oxidising.

Active Oxygen Content

3.8 %

Organic peroxides

: 95 %

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.



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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

Hazardous decomposition

products

No decomposition if stored and applied as directed.

4-tert-butylcyclohexanol 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)

40 °C

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg



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Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral

toxicity

Skin corrosion/irritation

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Exposure time : 24 h

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Species : Rabbit

Result : No eye irritation

Exposure time : 24 h

Method : OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Assessment : May cause sensitisation by skin contact.

Method : OECD Test Guideline 429

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:



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Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Method: Other guidelines

Result: negative

Genotoxicity in vivo : Result: Not mutagenic.

Carcinogenicity

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Remarks : No data available

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Remarks : Not classified due to data which are conclusive although

insufficient for classification.

STOT - repeated exposure

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Exposure routes : Ingestion

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

No aspiration toxicity classification



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Further information

Product:

Remarks No further data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 704 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 42 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): ca. 39

mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 17 mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

NOEC (activated sludge): 20 mg/l Toxicity to microorganisms

Exposure time: 5 d

Method: closed serum bottle

Remarks: 5 days

Ecotoxicology Assessment

Harmful to aquatic life. Acute aquatic toxicity

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



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Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Biodegradability : Result: Not readily biodegradable.

Method: OECD Test Guideline 301B

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Because of the partition coefficient for n-

octanol/water (Cf. Section 9), accumulation in living organisms

is possible.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Bioaccumulation : Bioconcentration factor (BCF): 2,926

Partition coefficient: n-

octanol/water

log Pow: 8.34

Mobility in soil

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Distribution among : log Koc: 5.08

environmental compartments

Other adverse effects

Product:

Additional ecological : An environmental hazard cannot be excluded in the event of

information unprofessional handling or disposal.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:



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Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not

considered to be very persistent and very bioaccumulating

(vPvB).

13. DISPOSAL CONSIDERATIONS

Disposal 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 : 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 Regulations

UNRTDG

UN number : UN 3114

Proper shipping name : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

CONTROLLED

(Di(4-tert-butylcyclohexyl) peroxydicarbonate, 95%)

Class : 5.2

Packing group : Not assigned by regulation

Labels : 5.2 Environmentally hazardous : no

IATA-DGR

Not permitted for transport

IMDG-Code

UN number : UN 3114

Proper shipping name : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

CONTROLLED

(Di(4-tert-butylcyclohexyl) peroxydicarbonate, 95%)



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Class : 5.2

Packing group : Not assigned by regulation

Labels : 5.2 EmS Code : F-F, 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.

National Regulations

GB 6944/12268

UN number : UN 3114

Proper shipping name : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

CONTROLLED

(Di(4-tert-butylcyclohexyl) peroxydicarbonate, 95%)

Class : 5.2

Packing group : Not assigned by regulation

Labels : 5.2 Marine pollutant : no

Remarks : The control temperature is the maximum temperature at which

the formulation can be transported safely during a prolonged

period of time.

Special precautions for user

Remarks : The control temperature is the maximum temperature at which

the formulation can be transported safely during a prolonged

period of time.

Further information for transport

Control temperature : 30 °C

Emergency temperature : 35 °C

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.

15. REGULATORY INFORMATION

National regulatory information

Regulations on Safety Management of Hazardous Chemicals



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Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)
No. / Code Chemical name / Category Threshold quantity

W7.2 Organic peroxides 50 t

Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number : 01-2119966122-42-0001

01-2119966122-42-0003

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

16. OTHER INFORMATION



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Further information

Other information : This data sheet contains changes from the previous version in

section(s):

Hazards identification

Composition/information on ingredients

Toxicological information

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

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 : Time weighted average

CN OEL / PC-TWA : Permissible concentration - time weighted average CN OEL / PC-STEL : 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



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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

Disclaimer

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.