

SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation 29 CFR 1910.1200

PERKADOX 16

Version 2 Revision Date 06/07/2021 Print Date 10/15/2021 US / Z8

1. IDENTIFICATION

Product name : PERKADOX 16

Product Use Description : Specific use(s): Polymerization initiator

Company : Nouryon Functional Chemicals LLC

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US

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2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	powder
Color	white
Odor	Faint.
Hazard Summary	Risk of dust explosion.

GHS Classification

Organic peroxides, Type C Skin sensitization, Category 1 Short-term (acute) aquatic hazard, Category 3

Long-term (acute) aquatic nazard, 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 or fume.

P272 Contaminated work clothing must 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 soap and

water.

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

advice/ attention.

P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage:

P410 Protect from sunlight.

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.

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 component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name : Organic peroxide Pure substance/mixture : Substance

Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration [% W/W]
Di(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3	Org. Perox. C; H242 Skin Sens. 1; H317 Aquatic Acute 3; H402 Aquatic Chronic 3; H412	>= 94 - <= 97

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 : Remove to fresh air.

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

Skin contact : Take off contaminated clothing and shoes immediately.

Wash the skin immediately with soap and 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 : May cause an allergic skin reaction.

Treatment : Treat symptomatically.

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

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.

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.

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.

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.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Wear respiratory protection. Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation. Remove all sources of ignition.

Emergency measures on

accidental release

: Evacuate personnel to safe areas.

Only qualified personnel equipped with suitable protective

equipment may intervene.

Prevent unauthorized 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

: 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.

Reference to other sections : For disposal considerations see section 13.

For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : For personal protection see section 8.

Avoid formation of respirable particles.

Do not breathe vapors/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.

Advice on protection against

fire and explosion

Use explosion protected equipment.

Provide appropriate exhaust ventilation at places where dust

is formed.

Keep away from sources of ignition - No smoking.

No sparking tools should be used.

Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal

soaps).

Do not cut or weld on or near this container even when empty.

Keep away from combustible material.

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.

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.

Maximum storage

: 20 °C (68 °F)

temperature:

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Other data : Maximum storage temperature is for quality only.

No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients 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 paramer Permiss concent	sible	Basis
Carbon dioxide		124-38-9		TWA		5,000 ppm		ACGIH
				STEL		30,000		ACGIH
				TWA		5,000 pp 9,000 m	om	NIOSH REL
				ST		30,000 j 54,000 i	ng/m3	NIOSH REL
				TWA		5,000 pp 9,000 m	om ig/m3	OSHA Z-1
				TWA		10,000 j 18,000 i	ng/m3	OSHA P0
				STEL		30,000 j 54,000 i		OSHA P0
				STEL		30,000 j 54,000 i	opm mg/m3	CAL PEL
				PEL		5,000 pp 9,000 m		CAL PEL
Components	CAS-No.			Control rameters	ι	Jpdate	Basis	Form of exposure
Dust		per cu		ion particles bic foot		2-07-01	OSHA Z-3	total dust
	Further information	a: Based on impinger samples counted by light-field techniques d: All inert or nuisance dusts, whether mineral, inorganic, or org listed specifically by substance name are covered by this limit, v same as the Particulates Not Otherwise Regulated (PNOR) limit. 1. mppcf X 35.3 = million particles per cubic meter = particles per cubic meter.						r organic, not mit, which is the) limit in Table Z- per c.c
Dust		TWA	15 mg/m3		2012	2-07-01	OSHA Z-3	total dust
	Further information	liste	d specific	cally by substa	ince n	ame are cov		r organic, not mit, which is the) limit in Table Z-
Dust		TWA	5 mg/r			2-07-01	OSHA Z-3	respirable fraction
	Further information	liste	d specific	cally by substa	ince n	ame are cov		r organic, not mit, which is the) limit in Table Z-

Dust		TWA	15 Million particles per cubic foot	2012-07-01	OSHA Z-3	respirable fraction		
	Further information	d: lis sa 1.	a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z- 1. mppcf X 35.3 = million particles per cubic meter = particles per c.c					
Dust		PEL	10 mg/m3	2014-11-26	CAL PEL	Total dust		
Dust		PEL	5 mg/m3	2014-11-26	CAL PEL	respirable dust fraction		
	Further information	ar ch sp): The concentration and e determined from the finaracteristics: Aerodyna phere)	raction passing a samic Diameter in Mat Passing Selector 100 1	ize selector with icrometers (unit of the control o	the following density 97 2		

Engineering measures : Explosion proof ventilation recommended.

Provide appropriate exhaust ventilation at places where dust

is formed.

Personal protective equipment

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

Hand protection

Material : Neoprene

Material : Nitrile rubber

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

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

practice.

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

Wash hands before breaks and at the end of workday.

Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Prevent product from entering drains.

Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : white

Odor : Faint.

Odor 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.

Flammability (liquids) : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : < 0.8 hPa (140 °F / 60 °C)

Relative vapor density : Not applicable

Relative density : 1.13 (68 °F / 20 °C)

Bulk density : 450 - 480 kg/m3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : insoluble (68 °F / 20 °C)

Solubility in other solvents : Soluble in most organic solvents.

Partition coefficient: n-

octanol/water

log Pow: 8.34 estimated

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)

104 °F / 40 °C

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidizing.

Active Oxygen Content : 3.8 %

Organic peroxides : 95 %

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

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

: 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.

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Hazardous reactions : Dust may form explosive mixture in air.

Self-Accelerating

decomposition temperature

(SADT)

: 40 °C (104 °F)

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Hazard Summary

Not classified based on available information. Acute toxicity

Skin corrosion/irritation Not classified based on available information.

Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization: Not classified based on available

information.

Skin sensitization: May cause an allergic skin reaction.

Not classified based on available information.

Not classified based on available information. Germ cell mutagenicity

Not classified based on available information. Carcinogenicity

Not classified based on available information. Reproductive toxicity

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 : Product dust may be irritating to respiratory system.

Skin : Product dust may be irritating to skin.

May cause an allergic skin reaction.

: Product dust may be irritating to eyes. Eyes

: Not expected to be irritating. Ingestion

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.

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 component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or NTP

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

TOXICOLOGY DATA FOR THE INGREDIENTS:

Test result

Component: Di(4-tert-butylcyclohexyl) peroxydicarbonate

: LD50: > 5,000 mg/kgAcute oral toxicity

Species: Rat

Method: OECD Test Guideline 401

Skin irritation : Result: No skin irritation

Method: OECD Test Guideline 404

Exposure time: 24 h

Eye irritation : Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Exposure time: 24 h

Germ cell mutagenicity

Genotoxicity in vitro Result: negative

Method: OECD Test Guideline 471

Result: negative

Method: Other guidelines

Genotoxicity in vivo : Result: Not mutagenic.

Carcinogenicity : No data available

Target Organ Systemic

: Routes of exposure: Ingestion

Toxicant - Repeated exposure

The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity : No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Test result

information

Elimination information (persistence and degradability)

Bioaccumulation : Because of the partition coefficient for n-octanol/water (Cf.

Section 9), accumulation in living organisms is possible.

Biodegradability : Result: Not readily biodegradable.

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).

COMPONENTS:

Ecotoxicology Assessment

Component: Di(4-tert-butylcyclohexyl) peroxydicarbonate

Short-term (acute) aquatic : Harmful to aquatic life.

hazard

Long-term (chronic) aquatic

hazard

: Harmful to aquatic life with long lasting effects.

Test result

Component: Di(4-tert-butylcyclohexyl) peroxydicarbonate

Ecotoxicity effects

Toxicity to fish : LC50: 704 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 42 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae : ErC50: ca. 39 mg/l

Exposure time: 72 h

Species: Desmodesmus subspicatus (green algae)

Test Type: Growth inhibition

Method: OECD Test Guideline 201

NOEC: 17 mg/l Exposure time: 72 h

Species: Desmodesmus subspicatus (green algae)

Test Type: Growth inhibition Method: OECD Test Guideline 201

Toxicity to bacteria : NOEC: 20 mg/l

Exposure time: 5 d Species: activated sludge Method: closed serum bottle

5-days

Elimination information (persistence and degradability)

Bioaccumulation : Bioconcentration factor (BCF): 2,926

Distribution among

environmental compartments

log Koc: 5.08

Biodegradability : Result: Not readily biodegradable.

Method: OECD Test Guideline 301B

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.

14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3114 Class : 5.2

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)

Class : 5.2

Packing group : Not Assigned

Labels : 5.2 EmS Code : F-F, S-R 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.

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

Not applicable for product as supplied.

Further information for transport

Control temperature : 30 °C (86 °F)

Emergency temperature : 35 °C (95 °F)

Domestic regulation

49 CFR

UN/ID/NA 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

Labels : 5.2 ERG Code : 148 Marine pollutant : no

Reportable Quantity : This product does not contain an environmentally hazardous

substance per 49 CFR 172.101, Appendix A.

Remarks : The control temperature is the maximum temperature at which

the formulation can be transported safely during a prolonged

period of time.

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 YES. On the inventory, or in compliance with the inventory AICS YES. All components of this product are on the Canadian DSL 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 YES. On the inventory, or in compliance with the inventory **IECSC** : YES. On the inventory, or in compliance with the inventory **NZIoC**

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.

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.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Organic peroxides

Respiratory or skin sensitization

SARA 313 : 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.

Clean Air Act

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).

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 SOCMI 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 This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Di(4-tert-butylcyclohexyl) peroxydicarbonate

15520-11-3

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

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

H242 : Heating may cause a fire.

H317 : May cause an allergic skin reaction.

H402 : Harmful to aquatic life.

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CAL PEL : California permissible exposure limits for chemical

contaminants (Title 8, Article 107)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3

Mineral Dusts

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit : Short term exposure limit : Permissible exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

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; 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

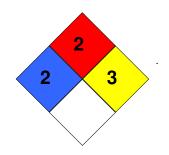
HMIS Classification : Health Hazard: 2

Chronic Health Hazard: /

Flammability: 2 Physical hazards: 3

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 3



Notification status explanation

TCSI Taiwan Chemical Substance Inventory (TCSI)

TSCA United States TSCA Inventory

AICS Australia Inventory of Chemical Substances (AICS)

DSL Canadian Domestic Substances List (DSL)

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)

NZIoC New Zealand. Inventory of Chemical Substances

Further information

Revision Date 06/07/2021

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

Hazards identification

Composition/information on ingredients

Toxicological information

PERKADOX 16

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