

SAFETY DATA SHEET

according to the Hazardous Products Regulations

PERKADOX 14-40K-PD

Version 2.5 Revision Date: 2024/01/29 CA / EN Date of last issue: 2023/05/04
Date of first issue: 2015/04/25

SECTION 1. IDENTIFICATION

Product name : PERKADOX 14-40K-PD
Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : Nouryon Functional Chemicals LLC
Address : 100 Matsonford Road, Building 1, Suite 500
Radnor PA 19087
United States
Telephone : (800) 828-7929
Telefax : (312) 544-7188
E-mail address : polymer.amer@nouryon.com
Emergency telephone number : 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-:
CHEMTREC (24-hr): (800) 424-9300 (Toll-free in the U.S.,
Canada and the U.S. Virgin Islands)
CHEMTREC (24-hr): (703) 527-3887 (For calls originating
elsewhere / collect calls are accepted)
Emergency telephone number : 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

Initial Supplier Identifier
Données relatives au fournisseur

Univar Solutions Canada Ltd.

64 Arrow Road
North York, ON M9M 2L9
Telephone: 1-866-686-4827

Recommended use of the chemical and restrictions on use

Recommended use : Cross-linking agent

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable solids : Category 1
Organic peroxides : Type G
Long-term (chronic) aquatic hazard : Category 4

GHS label elements

Hazard pictograms :



Signal word : Danger

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Hazard statements : H228 Flammable solid.
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.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting 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 dry sand, dry chemical or alcohol-resistant foam to extinguish.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Di(tert-butylperoxyisopropyl)benzene	Di(tert-butylperoxyisopropyl)benzene	25155-25-3	>= 39 - < 42
Silicon dioxide	Silica	7631-86-9	>= 1 - <= 5

The following substances have multiple CAS-number

Silicon dioxide : 112945-52-5
112926-00-8

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.

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If inhaled	:	If breathed in, move person into fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash the skin immediately with soap and water.
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. 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. 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 fire-fighting	:	CAUTION: reignition may occur. Supports combustion. Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water courses. Hazardous decomposition products formed under fire conditions.
Hazardous combustion products	:	Fire will produce smoke containing hazardous combustion products (see section 10).
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.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective
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- 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 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.

SECTION 7. HANDLING AND STORAGE

- 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.
- Advice on safe handling : For personal protection see section 8.
Do not smoke.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.
Electrical installations / working materials must comply with the technological safety standards.
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: : 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

- Dust : 5 mg/m³
Value type (Form of exposure): TWA (Total dust)

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon dioxide	7631-86-9	TWAEV (respirable dust)	6 mg/m3	CA QC OEL

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 303 mg/m3	CA AB OEL
		TWA	100 ppm	CA BC OEL
		TWAEV	100 ppm 303 mg/m3	CA QC OEL
		TWA	100 ppm	ACGIH
		TWA	100 ppm	ACGIH
		TWA	100 ppm	ACGIH
Acetone	67-64-1	TWA	500 ppm 1,200 mg/m3	CA AB OEL
		STEL	750 ppm 1,800 mg/m3	CA AB OEL
		TWA	250 ppm	CA BC OEL
		STEL	500 ppm	CA BC OEL
		TWAEV	250 ppm	CA QC OEL
		STEV	500 ppm	CA QC OEL
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH

Engineering measures : Explosion proof ventilation recommended.

Personal protective equipment

Respiratory protection : Handle in accordance with good industrial hygiene and safety practice.

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.

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Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: fine powder
Colour	: off-white
Odour	: Faint.
Odour Threshold	: No data available
pH	: Not applicable
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)	: The substance or mixture is a flammable solid with the category 1.
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: 1.60 (20 °C)
Bulk density	: 460 kg/m ³ (20 °C)
Solubility(ies)	
Water solubility	: insoluble (20 °C)
Solubility in other solvents	: Description: Soluble in most organic solvents.
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Test method not applicable

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Decomposition temperature	:	SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT)	:	80 °C
Viscosity	:	
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidising.
Active Oxygen Content	:	3.8 %
Organic peroxides	:	39 - 41 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	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	:	No decomposition if stored and applied as directed.

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products Hazardous decomposition products	:	para-Diisopropanolbenzene tert-Butanol Acetone Methane Carbon oxides Diacetylbenzene Tetra-alkyl-m-xylene-diol
Thermal decomposition	:	SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT)	:	80 °C

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

Di(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 dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

Silicon dioxide:

Acute oral toxicity	:	LD50 (Rat): > 10,000 mg/kg
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Skin corrosion/irritation

Not classified due to lack of data.

Components:

Di(tert-butylperoxyisopropyl)benzene:

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Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

Components:**Di(tert-butylperoxyisopropyl)benzene:**

Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation**Skin sensitisation**

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components:**Di(tert-butylperoxyisopropyl)benzene:**

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

Germ cell mutagenicity

Not classified due to lack of data.

Components:**Di(tert-butylperoxyisopropyl)benzene:**

Genotoxicity in vitro	:	Test Type: Ames test Result: negative
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Genotoxicity in vivo	:	Result: Not mutagenic.
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Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

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Components:

Di(tert-butylperoxyisopropyl)benzene:

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(tert-butylperoxyisopropyl)benzene:

No aspiration toxicity classification

Further information

Product:

Remarks : Delayed and immediate effects and also chronic effects from short and long term exposure
As stated above in the summary of toxicological information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Di(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

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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:

Di(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:

Di(tert-butylperoxyisopropyl)benzene:

Bioaccumulation : Remarks: No bioaccumulation is expected.

Partition coefficient: n-octanol/water : log Pow: 7.3 (20 °C)
Method: Calculation method

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

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.

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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 1325
Proper shipping name	:	FLAMMABLE SOLID, ORGANIC, N.O.S. (Di(tert-butylperoxyisopropyl)benzene)
Class	:	4.1
Packing group	:	II
Labels	:	4.1
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1325
Proper shipping name	:	Flammable solid, organic, n.o.s. (Di(tert-butylperoxyisopropyl)benzene)
Class	:	4.1
Packing group	:	II
Labels	:	Flammable Solid
Packing instruction (cargo aircraft)	:	448
Packing instruction (passenger aircraft)	:	445

IMDG-Code

UN number	:	UN 1325
Proper shipping name	:	FLAMMABLE SOLID, ORGANIC, N.O.S. (Di(tert-butylperoxyisopropyl)benzene)
Class	:	4.1
Packing group	:	II
Labels	:	4.1
EmS Code	:	F-A, S-G
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

TDG

UN number	:	UN 1325
Proper shipping name	:	FLAMMABLE SOLID, ORGANIC, N.O.S. (Di(tert-butylperoxyisopropyl)benzene)
Class	:	4.1

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Packing group	:	II
Labels	:	4.1
ERG Code	:	133
Marine pollutant	:	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

Canadian PBT Chemicals : This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA:
Di(tert-butylperoxyisopropyl)benzene

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	:	Not 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	:	Not in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA QC OEL / TWA EV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

AIIIC - 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

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

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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