

## SAFETY DATA SHEET

### PERKADOX 16-40XPS

Version	Revision Date:	US / Z8	Date of last issue: 12/13/2022
6.2	05/05/2023		Date of first issue: 04/25/2015

#### SECTION 1. IDENTIFICATION

Product name : PERKADOX 16-40XPS

##### Manufacturer or supplier's details

Company name of supplier : Nouryon Functional Chemicals B.V.

Address : Haaksbergweg 88  
Amsterdam 1101 BZ  
NL

Telephone : +31889840367

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

Emergency telephone : 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-

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)

##### Recommended use of the chemical and restrictions on use

Recommended use : Curing agent

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Organic peroxides : Type E

Skin sensitization : Category 1

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

##### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H242 Heating may cause a fire.  
H317 May cause an allergic skin reaction.

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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 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.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Propane- 1,2-diol E490	57-55-6	>= 55 - <= 65
Di(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3	>= 38 - <= 40
Proprietary filler		>= 1 - <= 5

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#### SECTION 4. FIRST AID MEASURES

- |   |  |
|---|--|
| General advice  | : Move out of dangerous area.<br>Consult a physician.<br>Show this material safety data sheet to the doctor in attendance.   |
| If inhaled  | : Consult a physician after significant exposure.  |
| In case of skin contact                                     | : Take off contaminated clothing and shoes immediately.<br>Wash the skin immediately with soap and water.<br>If skin irritation persists, call a physician.                |
| In case of eye contact                                      | : Rinse with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed  | : Clean mouth with water and drink afterwards plenty of water.<br>Never give anything by mouth to an unconscious person.<br>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.<br>May cause an allergic skin reaction. |
| 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  |
| Specific hazards during fire fighting | : CAUTION: reignition may occur.<br>Supports combustion.<br>Do not use a solid water stream as it may scatter and spread fire.<br>Water spray may be ineffective unless used by experienced firefighters.<br>Do not allow run-off from fire fighting to enter drains or water courses.<br>Hazardous decomposition products formed under fire conditions. |
| Hazardous combustion products         | : Fire will produce smoke containing hazardous combustion products (see section 10).<br>Carbon oxides  |
| Further information                   | : Use water spray to cool unopened containers.   |

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

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Wear respiratory protection.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
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 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.  
Keep away from combustible material.

Advice on safe handling : For personal protection see section 8.  
Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid contact with skin.  
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

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Conditions for safe storage : regulations.  
No smoking.  
Keep in a well-ventilated place.  
Observe label precautions.  
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: : No decomposition if stored and applied as directed.  
15 °C (59 °F)

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propane- 1,2-diol E490	57-55-6	TWA	10 mg/m3	US WEEL
Proprietary filler	Not Assigned	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m3	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	OSHA P0

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**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.

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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Color : white

Odor : Faint.

Odor Threshold : No data available

pH : Not applicable

Melting point : No data available

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

Vapor pressure : Not applicable

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Relative vapor density	: Not applicable
Relative density	: No data available
Solubility(ies)	
Water solubility	: insoluble (68 °F / 20 °C)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
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)	: 113 °F / 45 °C
Viscosity	
Viscosity, dynamic	: thixotropic
Viscosity, kinematic	: thixotropic
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidizing.
Active Oxygen Content	: 1.6 %
Organic peroxides	: 38 - 40 %

#### 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	: A high degree of confinement must be avoided. Heat, flames and sparks.
Incompatible materials	: Contact with the following incompatible materials will result in hazardous decomposition:

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		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	:	No decomposition if stored and applied as directed. 4-tert-butylcyclohexanol Carbon oxides 4-tert-Butylcyclohexanone
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.
Self-Accelerating decomposition temperature (SADT)	:	45 °C

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

### Components:

#### Propane- 1,2-diol E490:

Acute oral toxicity : LD50 (Rat): 22,000 mg/kg

#### Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401



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Assessment: The substance or mixture has no acute oral toxicity

#### Proprietary filler:

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

#### Skin corrosion/irritation

Not classified based on available information.

#### 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 based on available information.

#### Components:

##### Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Species	: Rabbit
Result	: No eye irritation
Exposure time	: 24 h
Method	: OECD Test Guideline 405

#### Respiratory or skin sensitization

##### Skin sensitization

May cause an allergic skin reaction.

##### Respiratory sensitization

Not classified based on available information.

#### Components:

##### Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Assessment	: May cause sensitization by skin contact.
Method	: OECD Test Guideline 429

#### Germ cell mutagenicity

Not classified based on available information.

#### 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 based on available information.

#### Components:

##### Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Remarks : No data available

**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 ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

#### Components:

##### Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Remarks : Not classified due to data which are conclusive although insufficient for classification.

#### STOT-repeated exposure

Not classified based on available information.

#### Components:

##### Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Routes of exposure : Ingestion

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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#### Aspiration toxicity

Not classified based on available information.

#### Components:

##### Di(4-tert-butylcyclohexyl) peroxydicarbonate:

No aspiration toxicity classification

#### Further information

#### Product:

Remarks : No further data available.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### Components:

##### Propane- 1,2-diol E490:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia): 43,500 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Selenastrum capricornutum (green algae)): 19,000  
plants mg/l  
Exposure time: 96 h

##### 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

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 42 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): ca. 39  
plants 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

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Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (activated sludge): 20 mg/l  
Exposure time: 5 d  
Method: closed serum bottle  
Remarks: 5-days

#### Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

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

#### Persistence and degradability

##### Components:

##### **Propane- 1,2-diol E490:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 81.7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

Biochemical Oxygen Demand (BOD) : Remarks: No data available

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B

#### Bioaccumulative potential

##### Components:

##### **Propane- 1,2-diol E490:**

Bioaccumulation : Bioconcentration factor (BCF): 0.09

Partition coefficient: n-octanol/water : log Pow: -0.78

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Bioaccumulation : Bioconcentration factor (BCF): 2,926

Partition coefficient: n-octanol/water : log Pow: 8.34

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#### Mobility in soil

##### Components:

##### **Propane- 1,2-diol E490:**

Mobility : Medium: Soil  
Remarks: Low volatility

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

Distribution among environmental compartments : log Koc: 5.08

#### Other adverse effects

##### Product:

Ozone-Depletion Potential : 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).

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

##### Components:

##### **Propane- 1,2-diol E490:**

Results of PBT and vPvB assessment : This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic) This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)

##### **Di(4-tert-butylcyclohexyl) peroxydicarbonate:**

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).

## 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.

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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.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 3118  
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED  
(Di(4-tert-butylcyclohexyl) peroxydicarbonate)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2

#### IATA-DGR

Not permitted for transport

#### IMDG-Code

UN number : UN 3118  
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED  
(Di(4-tert-butylcyclohexyl) peroxydicarbonate)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-F, S-R  
Marine pollutant : no  
Remarks : CA-2015030008

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

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3118  
Proper shipping name : Organic peroxide type E, solid, temperature controlled  
(Di(4-tert-butylcyclohexyl) peroxydicarbonate, 40%)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : ORGANIC PEROXIDE  
ERG Code : 148  
Marine pollutant : no  
Reportable Quantity : This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

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Remarks : The control temperature is the maximum temperature at which the formulation can be transported safely during a prolonged period of time.  
CA-2015030008

#### 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 : 35 °C (95 °F)

Emergency temperature : 40 °C (104 °F)

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

#### 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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Propane- 1,2-diol E490 57-55-6 >= 55 - <= 65 %

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#### 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

Proprietary filler	Not Assigned
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##### Pennsylvania Right To Know

Propane- 1,2-diol E490	57-55-6
Di(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3
Proprietary filler	Not Assigned

##### Maine Chemicals of High Concern

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

##### New Jersey Right To Know

Propane- 1,2-diol E490	57-55-6
Di(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3
Proprietary filler	Not Assigned

##### 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.

#### The ingredients 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



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NZloC : On the inventory, or in compliance with the inventory

TECI : Not in compliance with the inventory

#### TSCA list

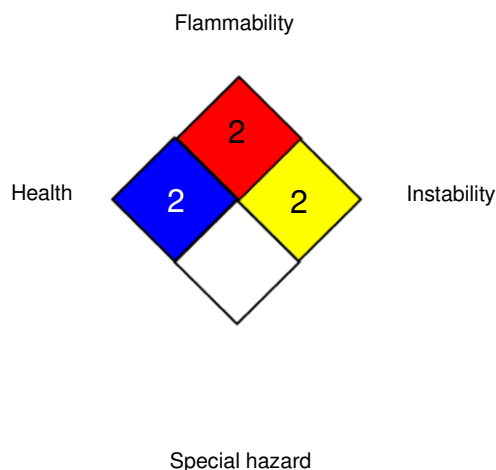
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		2
PHYSICAL HAZARD		2

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
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
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit

## SAFETY DATA SHEET

### PERKADOX 16-40XPS

Version	Revision Date:	US / Z8	Date of last issue: 12/13/2022
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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
US WEEL / TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - 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

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

Revision Date : 05/05/2023

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