

# SAFETY DATA SHEET

according to the Globally Harmonized System and Canadian Hazardous Products Regulations

## PERKADOX BTW-50

Version 3

Revision Date 2022/01/12

Print Date 2023/08/08

CA / EN

### 1. IDENTIFICATION

Product name : PERKADOX BTW-50

Product Use Description : Specific use(s): Curing agent

Company : Nouryon Functional Chemicals B.V.  
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Netherlands

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Fax :

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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-: 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)

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	paste
Colour	white
Odour	Faint.

#### GHS Classification

Organic peroxides, Type E  
Eye irritation, Category 2B  
Skin sensitisation, Sub-category 1A  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 1

#### GHS label elements


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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H320 Causes eye irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P235 Keep cool. P240 Ground and bond container and receiving equipment. P261 Avoid breathing dust or fume. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. P391 Collect spillage. <b>Storage:</b> P403 Store in a well-ventilated place. P410 Protect from sunlight. P420 Store separately. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.
<b>Carcinogenicity:</b>		
<b>IARC</b>	:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>OSHA</b>	:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name : Organic peroxide  
Pure substance/mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Classification	Concentration [% W/W]
Dibenzoyl peroxide	94-36-0	Org. Perox. B; H241 Eye Irrit. 2B; H320 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 10 M-Factor (Chronic): 10	$\geq 50 - \leq 54$
Dipropylenglycol dibenzoate	27138-31-4	Aquatic Chronic 2; H411	$\geq 20 - \leq 30$
zinc distearate	557-05-1	Aquatic Acute 1; H400	$\geq 1 - \leq 5$

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 safety data sheet to the doctor in attendance.

Inhalation : Consult a physician after significant exposure.

Skin contact : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of 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.  
Obtain medical attention.

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

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are known.

Risks : May cause an allergic skin reaction.  
Causes eye irritation.

Treatment : Treat symptomatically.

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## 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during firefighting / Specific hazards arising from the chemical : 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.

Combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).

Special protective equipment for firefighters : 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

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Wear respiratory protection.  
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 unauthorised 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.

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## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling : For personal protection see section 8.  
Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid contact with skin, eyes and clothing.  
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.  
Electrical installations / working materials must comply with the technological safety standards.  
Keep only in original container.  
Store away from other materials.

Maximum storage temperature: : 25 °C

Other data : No decomposition if stored and applied as directed.  
Maximum storage temperature is for quality only.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dibenzoyl peroxide	94-36-0	TWA	5 mg/m <sup>3</sup>	CA AB OEL
		TWA	5 mg/m <sup>3</sup>	CA BC OEL
		TWAEV	5 mg/m <sup>3</sup>	CA QC OEL
zinc distearate	557-05-1	TWA	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Total dust)	10 mg/m <sup>3</sup>	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m <sup>3</sup>	CA BC OEL
		STEL (Total dust)	20 mg/m <sup>3</sup>	CA BC OEL
		TWAEV	10 mg/m <sup>3</sup>	CA QC OEL

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzene	71-43-2	STEL	2.5 ppm 8 mg/m <sup>3</sup>	CA AB OEL
		TWA	0.5 ppm 1.6 mg/m <sup>3</sup>	CA AB OEL
		TWA	0.5 ppm	CA BC OEL
		STEL	2.5 ppm	CA BC OEL
		TWA	0.5 ppm	CA ON OEL
		STEL	2.5 ppm	CA ON OEL
		TWAEV	1 ppm 3 mg/m <sup>3</sup>	CA QC OEL
		STEV	5 ppm 15.5 mg/m <sup>3</sup>	CA QC OEL
Carbon dioxide	124-38-9	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	CA AB OEL
		STEL	30,000 ppm 54,000 mg/m <sup>3</sup>	CA AB OEL
		TWA	5,000 ppm	CA BC OEL
		STEL	15,000 ppm	CA BC OEL
		STEV	30,000 ppm 54,000 mg/m <sup>3</sup>	CA QC OEL
		TWAEV	5,000 ppm 9,000 mg/m <sup>3</sup>	CA QC OEL

**Engineering measures** : Explosion proof ventilation recommended.  
Ensure that eyewash stations and safety showers are close to the workstation location.

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## 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.

## Environmental exposure controls

- General advice : Prevent product from entering drains.  
Discharge into the environment must be avoided.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Colour : white
- Odour : Faint.
- Odour Threshold : No data available
- pH : Not applicable
- Melting point : No data available
- Boiling point/boiling range : Decomposes below the boiling point.
- Flash point : Above the SADT value
- 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

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Vapour pressure	:	not determined
Relative vapour density	:	10.8 (20 °C ) Solvent (Air = 1.0)
Relative density	:	1.2 (20 °C)
Solubility(ies)		
Water solubility	:	partly soluble (20 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
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)	:	50 °C
Viscosity		
Viscosity, dynamic	:	thixotropic
Viscosity, kinematic	:	thixotropic
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidising.
Active Oxygen Content	:	3.25 %
Organic peroxides	:	50 %

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

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	:	A high degree of confinement must be avoided. Heat, flames and sparks.
Materials to avoid	:	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	: Carbon oxides Benzoic acid Benzene 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	: No dangerous reaction known under conditions of normal use.
Self-Accelerating decomposition temperature (SADT)	: 50 °C

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Hazard Summary

Acute toxicity	: Not classified based on available information.
Skin corrosion/irritation	: Not classified based on available information.
Serious eye damage/eye irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Respiratory sensitisation: Not classified based on available information. Skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified based on available information.

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- Carcinogenicity : Not classified based on available information.
- Reproductive toxicity : Not classified based on available information.
- 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 : Thermal decomposition can lead to release of irritating gases and vapours.
- Skin : May cause an allergic skin reaction.  
May cause skin irritation.
- Eyes : Causes serious eye irritation.
- Ingestion : May cause irritation of the mucous membranes.
- 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.

## Test result

- Acute oral toxicity : Acute toxicity estimate: 3,745 mg/kg  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

## Carcinogenicity:

- IARC** : No component 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.

## TOXICOLOGY DATA FOR THE COMPONENTS:

### Toxicology Assessment

#### Component: Dibenzoyl peroxide

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CMR effects : Carcinogenicity: Not carcinogenic.  
Mutagenicity: Not mutagenic.  
Teratogenicity: Did not show teratogenic effects in animal experiments.  
Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

## Test result

### Component: Dibenzoyl peroxide

Acute oral toxicity : LD50: > 2,000 mg/kg  
Species: Mouse  
Method: OECD Test Guideline 401  
  
LD50: > 5,000 mg/kg  
Species: Rat

Acute inhalation toxicity : LC50 (Rat, male): > 24.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Skin irritation : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
Exposure time: 4 h

Eye irritation : Species: Rabbit  
Result: Irritation to eyes, reversing within 7 days

Sensitisation : Species: Guinea pig  
Classification: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 406  
  
Local lymph node assay (LLNA)  
Species: Mouse  
Classification: The product is a skin sensitiser, sub-category 1A.  
Method: OECD Test Guideline 429

Germ cell mutagenicity  
Genotoxicity in vitro : In vitro gene mutation study in mammalian cells  
mouse lymphoma cells  
Result: negative  
Method: OECD Test Guideline 476

Genotoxicity in vivo : Micronucleus test

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Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

- Carcinogenicity : Not classified due to data which are conclusive although insufficient for classification.
- Reproductive toxicity/Fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Oral  
General Toxicity F1: No observed adverse effect level: 500 mg/kg bw/day  
Method: OECD Test Guideline 422  
GLP: yes
- Reproductive toxicity/Development/Teratogenicity : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level: 300 mg/kg bw/day  
Embryo-foetal toxicity: No observed adverse effect level: 300 mg/kg bw/day  
Method: OECD Test Guideline 414  
GLP: yes
- Target Organ Systemic Toxicant - Single exposure : Exposure routes: Ingestion  
The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Target Organ Systemic Toxicant - Repeated exposure : Exposure routes: Ingestion  
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration toxicity : No aspiration toxicity classification

## **Component: Dipropyleneglycol dibenzoate**

- Acute oral toxicity : LD50 Oral: 3,914 mg/kg  
Species: Rat
- Acute inhalation toxicity : LC50 (Rat): > 200 mg/l  
Exposure time: 4 h
- Acute dermal toxicity : LD50: 2,001 - 5,000 mg/kg  
Species: Rat
- Skin irritation : Result: No skin irritation
- Sensitisation : Result: Not sensitizing.

## **Component: zinc distearate**

- Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat

Acute dermal toxicity : LD50: > 2,000 - 5,000 mg/kg  
Aspiration toxicity : No aspiration toxicity classification

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

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

### COMPONENTS:

#### Ecotoxicology Assessment

##### Component: Dipropylenglycol dibenzoate

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

##### Component: zinc distearate

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

### Test result

#### Component: Dibenzoyl peroxide

#### Ecotoxicity effects

Toxicity to fish : LC50: 0.06 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50: 0.11 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : NOEC: 0.02 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Acute) : 10

M-Factor (Chronic) : 10

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Toxicity to bacteria : EC50: 35 mg/l  
Exposure time: 0.5 h  
Species: activated sludge  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

Toxicity to daphnia and other : EC10: 0.001 mg/l  
aquatic invertebrates : Exposure time: 21 d  
(Chronic toxicity) : reproduction rate  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211

## **Elimination information (persistence and degradability)**

Biodegradability : Test Type: Ready biodegradability  
Inoculum: activated sludge, non-adapted  
Concentration: 2 mg/l  
Result: Readily biodegradable.  
Testing period: 7 d  
Exposure time: 28 d  
Kinetic:  
7 d: 58 %  
15 d: 63 %  
21 d: 71 %  
28 d: 71 %  
Method: OECD Test Guideline 301D  
GLP: yes

## **Component: Dipropyleneglycol dibenzoate**

### **Ecotoxicity effects**

Toxicity to fish : 3.7 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other : 19.3 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Species: Daphnia (water flea)

Toxicity to algae : 4.9 mg/l  
Exposure time: 72 h  
Species: algae

## **Elimination information (persistence and degradability)**

Biodegradability : Result: Readily biodegradable.

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## **Component: zinc distearate**

### **Ecotoxicity effects**

Toxicity to fish (Chronic toxicity) : NOEC: 0.172 mg/l  
Exposure time: 30 d  
Test Type: flow-through test  
Read-across from supporting substance (structural analogue or surrogate).

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Lowest observed effect level: 1 mg/l  
Exposure time: 21 d  
reproduction rate  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Read-across from supporting substance (structural analogue or surrogate).

### **Elimination information (persistence and degradability)**

Biodegradability : Result: Readily biodegradable.

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## **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.

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## **14. TRANSPORT INFORMATION**

### **International Regulations**

#### **IATA-DGR**

UN/ID No. : UN 3108  
Proper shipping name : Organic peroxide type E, solid (Dibenzoyl peroxide)  
Class : 5.2  
Subsidiary risk : HEAT  
Packing group : Not Assigned  
Labels : 5.2 (HEAT)  
Packing instruction (cargo) : 570

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aircraft)  
Packing instruction : 570  
(passenger aircraft)  
Environmentally hazardous : yes

## IMDG-Code

UN number : UN 3108  
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID  
(Dibenzoyl peroxide)  
Class : 5.2  
Packing group : Not Assigned  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : yes  
(Dibenzoyl peroxide)

## 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 3108  
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID  
(Dibenzoyl peroxide)  
Class : 5.2  
Packing group : II  
Labels : 5.2  
ERG Code : 145  
Marine pollutant : yes  
(Dibenzoyl peroxide)

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

For explanation of abbreviation see section 16.

**NPRI Components** : zinc distearate  
Dibenzoyl peroxide

### Canadian lists

No substances are subject to a Significant New Activity Notification.



## 16. OTHER INFORMATION

### Full text of H-Statements

H241	: Heating may cause a fire or explosion.
H317	: May cause an allergic skin reaction.
H320	: Causes eye irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

CA AB OEL	: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	: Canada. British Columbia OEL
CA ON OEL	: Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
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 ON OEL / TWA	: Time-Weighted Average Limit (TWA)
CA ON OEL / STEL	: Short-Term Exposure Limit (STEL)
CA QC OEL / TWAEV	: Time-weighted average exposure value
CA QC OEL / STEV	: Short-term exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - 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

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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

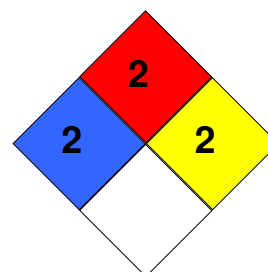
## Further information

### HMIS Classification

: Health hazard: 2  
Chronic Health Hazard: /  
Flammability: 2  
Physical hazards: 1

### NFPA Classification

: Health hazard: 2  
Fire Hazard: 2  
Reactivity Hazard: 2



## 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

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The information in this Safety Data Sheet should be provided all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

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.