

according to GB/T 16483 and GB/T 17519

TRIGONOX K-80 (<200 kg packaging)

Version Revision Date: 6.0 2023/03/24

CN / EN

Date of last issue: 2022/12/16 Date of first issue: 2015/01/23

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TRIGONOX K-80 (<200 kg packaging)

:

Manufacturer or supplier's details

Company : Nouryon Functional Chemicals B.V.

Haaksbergweg 88 NL 1101 BZ Amsterdam

Netherlands

Address : Haaksbergweg 88

Amsterdam 1101 BZ

Telephone : +31889840367

Emergency telephone number : 24 hours:+31 57 06 79211, US-CHEMTREC:1-800-424-9300,

CA-CANUTEC:1-613-996-6666, JP: +81 (836) 74 8810, CN: 化

学事故应急咨询电话: +86 532 8388 9090

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

Recommended use of the chemical and restrictions on use

Recommended use : Polymerization initiator

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance : liquid

Colour : colourless, light yellow

Odour : aromatic

Heating may cause a fire. Harmful if swallowed or in contact with skin. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

GHS Classification

Organic peroxides : Type F



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Acute toxicity (Oral)

Category 4

Acute toxicity (Inhalation)

Category 3

Acute toxicity (Dermal)

Category 4

Skin corrosion/irritation

Category 1B

Serious eye damage/eye

irritation

Category 1

Specific target organ toxicity - :

Category 2

repeated exposure Aspiration hazard

Category 1

Short-term (acute) aquatic

hazard

Category 2

Long-term (chronic) aquatic

hazard

Category 2

GHS label elements

Hazard pictograms











Signal word Danger

Hazard statements : H242 Heating may cause a fire.

> H302 + H312 Harmful if swallowed or in contact with skin. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or

repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.



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No smoking.

P220 Keep/ Store away from clothing/ combustible materials.

P234 Keep only in original container.

P235 Keep cool.

P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P314 Get medical advice/ attention if you feel unwell.

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.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 Protect from sunlight.

P420 Store away from other materials.

Disposal:

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



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Physical and chemical hazards

Heating may cause a fire.

Health hazards

Harmful if swallowed. Toxic if inhaled. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Environmental hazards

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

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : TRIGONOX K-80 (<200 kg packaging)

CAS-No. : Not Assigned

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cumyl hydroperoxide	80-15-9	>= 80 -<= 85
Cumene	98-82-8	>= 7 -<= 13
2-Phenylisopropanol	617-94-7	>= 5 -<= 8
Acetophenone	98-86-2	>= 0.5 -<= 1.5
Dicumyl peroxide	80-43-3	>= 0.46 -<= 0.65

4. FIRST AID MEASURES

General advice : Immediate medical attention is required.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

If inhaled : If breathed in, move person into fresh air.

Call a physician or poison control centre immediately.

Remove to fresh air.

Keep patient warm and at rest.



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If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

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

Rinse immediately with plenty of water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

If skin irritation persists, call a physician.

In case of eye contact : Rinse with plenty of water.

Get medical attention immediately. Continue to rinse during

transport.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Do not induce vomiting! May cause chemical burns in mouth

and throat.

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.

Harmful if swallowed or in contact with skin. May be fatal if swallowed and enters airways.

Causes serious eye damage.

Toxic if inhaled.

May cause damage to organs through prolonged or repeated

exposure.

Causes severe burns.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

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

carbon dioxide.



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Specific hazards during

firefighting

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

Hazardous decomposition products formed under fire

conditions.

Hazardous combustion

products

Carbon oxides

Specific extinguishing

methods

Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Wear respiratory protection. Ensure adequate ventilation. Remove all sources of ignition.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as

hazardous waste.

Use only inert inorganic material such as vermiculite or perlite

as absorbent.

Keep mixture of absorbent material and spilled product wetted

with water.

Confinement must be avoided.

Never return spills in original containers for re-use.



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Prevention of secondary

hazards

Evacuate personnel to safe areas.

Only qualified personnel equipped with suitable protective

equipment may intervene.

Prevent unauthorised persons entering the zone.

7. HANDLING AND STORAGE

Handling

Advice on protection against

fire and explosion

Use explosion protected equipment.

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 aerosol.

Do not breathe vapours or spray mist.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Obtain special instructions before use.

Avoidance of contact

Contact with the following incompatible materials will result in

hazardous decomposition:

Acids and bases

Iron Copper

Reducing agents Heavy metals

Rust

Do not mix with peroxide accelerators, unless under controlled

processing.

Use only stainless steel 316, PP, polyethylene or glass-lined

equipment.

For queries regarding the suitability of other materials please

contact the supplier.



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Storage

Conditions for safe storage

Prevent unauthorized access.

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.

Further information on

storage stability

If product freezes or separates, contact the manufacturer.

Maximum storage temperature is for quality only.

Minimum storage

temperature:

: Avoid temperatures below:

-30 °C

Maximum storage

temperature:

: 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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 parameters / Permissible concentration	Basis
Acetophenone	98-86-2	TWA	10 ppm	ACGIH

Engineering measures : Explosion proof ventilation recommended.

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close

to the workstation location.

Personal protective equipment

Respiratory protection : In the case of vapour or aerosol formation use a respirator



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with an approved filter.

Filter A

Eye/face protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Protective suit

Hand protection

Material : Neoprene

Material : Nitrile rubber

Hygiene measures : Avoid contact with skin, eyes and clothing.

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

Wash hands before breaks and immediately after handling

the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless, light yellow

Odour : aromatic

Odour Threshold : No data available

pH : 4 - 7.5

Melting point : -30 °C

Boiling point/boiling range : Decomposes below the boiling point.

Flash point : No data available No flash point was obtained, but the product

may release flammable vapour.



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Evaporation rate

: 0.06

(n-Butyl acetate = 1)

Flammability (liquids)

Decomposition products may be flammable.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : 20 hPa (20 °C)

Relative vapour density : 4.1

Solvent (Air = 1.0)

Relative density : ca. 1.06 (20 °C)

Bulk density : Not applicable

Solubility(ies)

Water solubility : partly miscible

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)

75 °C



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Viscosity

Viscosity, dynamic : 37.3 mPa.s (20 °C)

Viscosity, kinematic : ca. 35.19 mm2/s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidising.

Active Oxygen Content : 8.5 %

Organic peroxides : 80 - 85 %

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:

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.



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Hazardous decomposition

products

: Acetophenone Methane

2-Phenylisopropanol

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)

: 75 °C

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or in contact with skin.

Toxic if inhaled.

Product:

Acute oral toxicity : Acute toxicity estimate: 450.5 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 3.75 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,375 mg/kg

Method: Calculation method

Components:

Cumyl hydroperoxide:

Acute oral toxicity : LD50 Oral (Rat, male): 382 mg/kg

Acute inhalation toxicity : LC50: 1.370 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist



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Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity

LD50 (Rat): 1,200 - 1,520 mg/kg

: LD50 (Rabbit): 134 mg/kg

Cumene:

Acute oral toxicity

LD50 (Rat): > 2,000 mg/kg

2-Phenylisopropanol:

Acute oral toxicity

LD50 (Rat): 1,300 mg/kg

Remarks: Information taken from reference works and the

literature.

Acetophenone:

Acute oral toxicity

: LD50: 301 - 2,000 mg/kg

Dicumyl peroxide:

Acute oral toxicity

LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral

toxicity

Acute dermal toxicity

LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Causes severe burns.

Components:

Cumyl hydroperoxide:

Species : Rabbit
Assessment : Category 1B
Result : Causes burns.

2-Phenylisopropanol:



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Assessment : Irritating to skin.

Remarks : Information taken from reference works and the literature.

Dicumyl peroxide:

Assessment : Irritating to skin. Remarks : Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Cumyl hydroperoxide:

Assessment : Causes severe skin burns and eye damage.

2-Phenylisopropanol:

Assessment : Irritating to eyes.

Remarks : Information taken from reference works and the literature.

Acetophenone:

Assessment : Irritating to eyes.

Dicumyl peroxide:

Assessment : Mild eye irritation Remarks : Causes eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Cumyl hydroperoxide:

Result : Not sensitizing.

Dicumyl peroxide:



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Test Type

: Local lymph node assay (LLNA)

Species

: Mouse

Method Result OECD Test Guideline 429Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

Components:

Cumyl hydroperoxide:

Genotoxicity in vitro

: Result: Evidence of genotoxic effects in vitro.

Genotoxicity in vivo

Result: No evidence of genotoxic effects in vivo.

Germ cell mutagenicity -

Assessment

: Not mutagenic.

Dicumyl peroxide:

Genotoxicity in vitro

Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

: Test Type: In vitro cytogenicity study in mammalian cells

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

: Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster lung fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Cumyl hydroperoxide:



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Remarks : No data available

Reproductive toxicity

Not classified based on available information.

Components:

Dicumyl peroxide:

Effects on foetal

Species: Rat

development General Tox

General Toxicity Maternal: NOAEL: 150 mg/kg bw/day Developmental Toxicity: NOAEL: 150 mg/kg bw/day

Method: OECD Test Guideline 414

Remarks: Adverse developmental effects were observed

Species: Rabbit

General Toxicity Maternal: NOAEL: 50 mg/kg bw/day Developmental Toxicity: NOAEL: 150 mg/kg bw/day

Method: OECD Test Guideline 414

Remarks: No significant adverse effects were reported

Reproductive toxicity -

Assessment

Some evidence of adverse effects on development, based on

animal experiments.

STOT - single exposure

Not classified based on available information.

Components:

Cumene:

Exposure routes : Inhalation

Assessment : May cause respiratory irritation.

Dicumyl peroxide:

Remarks : Not classified due to data which are conclusive although

insufficient for classification.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Cumyl hydroperoxide:



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Exposure routes : Inhalation

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Dicumyl peroxide:

Remarks : Not classified due to data which are conclusive although

insufficient for classification.

Repeated dose toxicity

Components:

Dicumyl peroxide:

Species : Rat

NOAEL : 80 mg/kg bw/day

Method : OECD Test Guideline 408

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Cumene:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Solvents may degrease the skin.

Remarks : No further data available.

Components:

Cumyl hydroperoxide:

Remarks : May cause damage to organs through prolonged or repeated

exposure.

Cumene:

Remarks : Solvents may degrease the skin.



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Cumyl hydroperoxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

NOEC (Daphnia (water flea)): 9.15 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

EC50 (Daphnia (water flea)): 18.84 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 3.1 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 1.0 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to microorganisms : Toxicity Threshold (EC3) (Pseudomonas putida): > 50 mg/l



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Exposure time: 16 h

Test Type: Growth inhibition

Cumene:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Exposure time: 48 h

Remarks: Information taken from reference works and the

literature.

2-Phenylisopropanol:

Toxicity to fish : LC50 (Fish): Remarks: No data available

Dicumyl peroxide:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 0.469 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.397 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202

GLP: yes

Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic

plants

(Pseudokirchneriella subcapitata (green algae)): Exposure

time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: ves

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.117 mg/l

End point: reproduction rate

Exposure time: 21 d Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes



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Toxicity to microorganisms

NOEC (activated sludge): > 1,000 mg/l

Exposure time: 0.5 h Test Type: static test

Method: OECD Test Guideline 209

GLP: yes

Persistence and degradability

Components:

Cumyl hydroperoxide:

Biodegradability : Result: Not readily biodegradable.

Cumene:

Biodegradability : Result: Not readily biodegradable.

Biochemical Oxygen Demand (BOD) Remarks: No data available

Dicumyl peroxide:

Biodegradability : Ready biodegradability

Inoculum: Activated sludge, domestic, non-adapted

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 44 % Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Bioaccumulative potential

Components:

Cumyl hydroperoxide:

Bioaccumulation : Bioconcentration factor (BCF): < 1

Partition coefficient: n-

octanol/water

: Pow: 39.8 (20 °C)

Cumene:

Bioaccumulation : Remarks: No data available

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Dicumyl peroxide:

Bioaccumulation Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 137 - 1,470

Exposure time: 56 d Temperature: 25 °C Concentration: 0.01 mg/l

Method: OECD Test Guideline 305C

Mobility in soil

Components:

Cumene:

Mobility Remarks: No data available

Other adverse effects

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Components:

Cumyl hydroperoxide:

Results of PBT and vPvB

assessment

Not classified as PBT or vPvB

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Cumene:

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)

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.



according to GB/T 16483 and GB/T 17519

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Dicumyl peroxide:

Results of PBT and vPvB

assessment

Not classified as PBT or vPvB

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of contents/container in accordance with local

regulation.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Do not burn, or use a cutting torch on, the empty drum. Due to the high risk of contamination recycling/recovery is not

recommended.

Follow all warnings even after the container is emptied.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3109

Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID

(Cumyl hydroperoxide)

Class : 5.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : 5.2 (8)

IATA-DGR

UN/ID No. : UN 3109

Proper shipping name : Organic peroxide type F, liquid

(Cumyl hydroperoxide)

Class : 5.2 Subsidiary risk : 8

Packing group : Not assigned by regulation



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Labels

: Organic Peroxides, Corrosives, Keep Away From Heat

Packing instruction (cargo

570

aircraft)

Packing instruction

570

(passenger aircraft)

Environmentally hazardous

: yes

IMDG-Code

UN number

: UN 3109

Proper shipping name

: ORGANIC PEROXIDE TYPE F, LIQUID

(Cumyl hydroperoxide)

Class

: 5.2 · 8

Subsidiary risk Packing group

Not assigned by regulation

Labels EmS Code 5.2 (8) F-J, S-R

yes

5.2

8

Marine pollutant

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number : UN 3109

Proper shipping name

ORGANIC PEROXIDE TYPE F, LIQUID

(Cumyl hydroperoxide)

Class : Subsidiary risk :

Packing group : Not assigned by regulation

Labels : 5.2 (8)

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.

15. REGULATORY INFORMATION

National regulatory information

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed



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Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)

No. / Code Chemical name / Category Threshold quantity

W7.2 Organic peroxides 50 t

Yangtze River Protection Law

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

The components of this product are reported in the following inventories:

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

TSCA : All substances listed as active on the TSCA inventory

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

DSL : All components of this product are on the Canadian DSL

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

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

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

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

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

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

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

16. OTHER INFORMATION

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Further information

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

section(s):

Hazards identification

Composition/information on ingredients



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Toxicological information Ecological information

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / 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; 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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Disclaimer

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