according to Regulation (EC) No. 1907/2006

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : NOROX®600

REACH Registration Number : 01-2119966122-42-0002

Substance name : Di(4-tert-butylcyclohexyl) peroxydicarbonate

EC-No. : 239-557-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : polymerisation initiators

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : United Initiators GmbH

Dr.-Gustav-Adolph-Str. 3

82049 Pullach

Telephone : +49 / 89 / 74422 - 0

E-mail address of person

responsible for the SDS

: contact@united-in.com

1.4 Emergency telephone number

+44 1235 239670

2.2 Label elements

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Organic peroxides, Type C H242: Heating may cause a fire.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Cat-

H412: Harmful to aquatic life with long lasting ef-

egory 3 fects.

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :





Signal word : Danger

Hazard statements : H242 Heating may cause a fire.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible

materials.

P233 Keep container tightly closed.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P333 + P313 If skin irritation or rash occurs: 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.

Storage:

P411 Store at temperatures not exceeding 30 °C.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Di(4-tert-butylcyclohexyl) peroxydicarbonate

EC-No. : 239-557-1

Chemical nature : Organic Peroxides, Solid

Components

Chemical name	CAS-No. Concentration (%		M-Factor, SCL, ATE
	EC-No.	w/w)	
Di(4-tert-butylcyclohexyl)	15520-11-3	<= 100	
peroxydicarbonate	239-557-1		

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Symptoms of poisoning may appear several hours later.

Call a physician immediately.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

If breathed in, move person into fresh air.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Wash contaminated clothing before re-use.

If on skin, rinse well with water.
If on clothes, remove clothes.
If symptoms persist, call a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

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If swallowed : Keep respiratory tract clear.

Call a physician immediately. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which

may auto-ignite.

The product burns violently.

Flash back possible over considerable distance. Vapours may form explosive mixtures with air.

The product will float on water and can be reignited on surface

water.

Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary. Use personal protective equipment.

Specific extinguishing meth-

ods

Do not use a solid water stream as it may scatter and spread

fire.

Remove undamaged containers from fire area if it is safe to do

SO.

Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

Remove all sources of ignition.

Follow safe handling advice and personal protective equip-

ment recommendations.

Never return spills in original containers for re-use.

Treat recovered material as described in the section "Disposal

considerations".

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contact with incompatible substances can cause decomposi-

tion at or below SADT. Clear spills immediately.

Suppress (knock down) gases/vapours/mists with a water

sprav iet.

To clean the floor and all objects contaminated by this materi-

al, use plenty of water.

Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

according to Regulation (EC) No. 1907/2006

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Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Advice on safe handling : Do not swallow.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Take precautionary measures against static discharges. Never return any product to the container from which it was

originally removed.

Provide sufficient air exchange and/or exhaust in work rooms.

Avoid confinement.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Wash thoroughly after handling. For personal protection see section 8.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Protect from contamination.

Advice on protection against

fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep

away from combustible material.

Hygiene measures : Keep away from food and drink. When using do not eat or

drink. When using do not smoke. Wash hands before breaks

and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance

with the particular national regulations.

Advice on common storage : Keep away from strong acids, bases, heavy metal salts and

other reducing substances.

Recommended storage tem-

perature

< 20 °C

Further information on stor-

age stability

: No decomposition if stored normally.

according to Regulation (EC) No. 1907/2006

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7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data

sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
Di(4-tert- butylcyclohexyl) per- oxydicarbonate	Workers	Inhalation	Long-term systemic effects	5.87 mg/m3
	Workers	Skin contact	Long-term systemic effects	16.67 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Di(4-tert-butylcyclohexyl) peroxy-	Fresh water	0.39 mg/l
dicarbonate		
	Marine water	0.039 mg/l
	Intermittent use/release	0.39 mg/l
	Fresh water sediment	4685 mg/kg
	Marine sediment	468.5 mg/kg
	Soil	936.8 mg/kg
_	Sewage treatment plant	2 mg/l

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Please wear suitable protective goggles. Also wear face pro-

tection if there is a splash hazard.

Ensure that eyewash stations and safety showers are close

to the workstation location.

Please follow all applicable local/national requirements when

selecting protective measures for a specific workplace.

Equipment should conform to EN 166

Hand protection

Material : butyl-rubber

according to Regulation (EC) No. 1907/2006

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Break through time : 480 min Glove thickness : 0.47 mm

Directive : Equipment should conform to EN 374

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.40 mm

Directive : Equipment should conform to EN 374

Remarks : The data about break through time/strength of material are

standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of

workday.

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis-

posable suits) to avoid exposed skin surfaces.

Wear as appropriate:

Flame retardant antistatic protective clothing.

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Respirator with combination filter for vapour/particulate (EN

141)

Filter type : Filter type P

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : powder

Colour : white

Odour : characteristic

according to Regulation (EC) No. 1907/2006

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Odour Threshold No data available

82 °C Melting point/range

Decomposition: Decomposes below the melting point.

Boiling point/boiling range Not applicable

Flammability Organic peroxide

Upper explosion limit / Upper

flammability limit

Upper explosion limit

No data available

Lower explosion limit / Lower

flammability limit

Lower explosion limit No data available

Flash point Not applicable

Auto-ignition temperature not determined

Self-Accelerating decomposi-

tion temperature (SADT)

45 °C

Method: UN-Test H.4

SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a

self-accelerating decomposition reaction.

рΗ substance/mixture is non-soluble (in water)

Viscosity

Not applicable Viscosity, dynamic

Viscosity, kinematic Not applicable

Solubility(ies)

Water solubility 0.0056 g/l (5 °C)

insoluble

Partition coefficient: n-

log Pow: 8.34

octanol/water

The value is calculated

No data available Dispersion Stability

Vapour pressure > 0.00001 hPa (20 °C)

Relative density not determined

Density not determined

Bulk density 500 kg/m3 (20 °C)

Not applicable Relative vapour density

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Particle characteristics

Particle size : not determined

Particle Size Distribution : No data available

Dustiness : Avoid dust formation.

Shape : not determined

Crystallinity : Not applicable

Surface treatment

/Coatings

Not applicable

9.2 Other information

Explosives : Not explosive

Avoid dust formation.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Organic peroxide

Self-ignition : The substance or mixture is not classified as pyrophoric.

Self-heating substances : The substance or mixture is not classified as self heating.

Substances and mixtures, which in contact with water,

emit flammable gases

The substance or mixture does not emit flammable gases in

contact with water.

Desensitised explosives : Not applicable

Evaporation rate : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Protect from contamination.

Contact with incompatible substances can cause decomposi-

tion at or below SADT.

according to Regulation (EC) No. 1907/2006

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Heat, flames and sparks. Avoid confinement.

10.5 Incompatible materials

Materials to avoid : Accelerators, strong acids and bases, heavy metals and

heavy metal salts, reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and

decomposition

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is minimally toxic after

single ingestion.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is minimally toxic after

single ingestion.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

according to Regulation (EC) No. 1907/2006

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Remarks : May cause skin irritation in susceptible persons.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Remarks : Product dust may be irritating to eyes, skin and respiratory

system.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Species : Mouse

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

Remarks : Causes sensitisation.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Species : Mouse

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

according to Regulation (EC) No. 1907/2006

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Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Method: OECD Test Guideline 476

Result: negative

Method: OECD Test Guideline 487

Result: negative

Genotoxicity in vivo : Remarks: No data available

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Method: OECD Test Guideline 476

Result: negative

Method: OECD Test Guideline 487

Result: negative

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Remarks : This information is not available.

Reproductive toxicity

Not classified based on available information.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Effects on fertility : Remarks: This information is not available.

Effects on foetal develop: : Remarks: This information is not available.

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ment

STOT - single exposure

Not classified based on available information.

Product:

Remarks : No data available

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Product:

Species : Rat

NOAEL : 500 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 28 d

Method : OECD Test Guideline 407

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Species : Rat

NOAEL : 500 mg/kg LOAEL : 1,000 mg/kg

Application Route : Oral Exposure time : 28 d

Method : OECD Test Guideline 407

Aspiration toxicity

Not classified based on available information.

Product:

No data available

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

No data available

according to Regulation (EC) No. 1907/2006

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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

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 :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 42 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 39 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Components:

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 :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 42 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 39 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

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12.2 Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Method: OECD Test Guideline 301B

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Biodegradability : Result: Not readily biodegradable.

Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Bioconcentration factor (BCF): 2,926

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Bioaccumulation : Bioconcentration factor (BCF): 2,926

Partition coefficient: n- : log Pow: 8.34

octanol/water Remarks: Calculation

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

according to Regulation (EC) No. 1907/2006

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Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3114 **RID** : UN 3114

Not permitted for transport

IMDG : UN 3114
IATA : UN 3114

Not permitted for transport

14.2 UN proper shipping name

ADR : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

CONTROLLED

(DI-(4-tert-BUTYLCYCLOHEXYL)PEROXYDICARBONATE)

RID : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

CONTROLLED

Not permitted for transport

IMDG : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

CONTROLLED

(DI-(4-tert-BUTYLCYCLOHEXYL)PEROXYDICARBONATE)

IATA : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

CONTROLLED

Not permitted for transport

14.3 Transport hazard class(es)

according to Regulation (EC) No. 1907/2006

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ADR : 5.2

RID : Not permitted for transport

IMDG : 5.2

IATA : Not permitted for transport

14.4 Packing group

ADR

Packing group : Not assigned by regulation

Classification Code : P2 Labels : 5.2 Tunnel restriction code : (D)

RID : Not permitted for transport

IMDG

Packing group : Not assigned by regulation

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

IATA (Cargo) : Not permitted for transport

IATA (Passenger) : Not permitted for transport

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID : Not permitted for transport

IMDG

Marine pollutant : no

14.6 Special precautions for user

Additional advice

Temperature controlled transport.:

Control temperature : 30 °C

Emergency temperature : 35 °C

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-

according to Regulation (EC) No. 1907/2006

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 $\ensuremath{\mathsf{REACH}}$ - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P6b SELF-REACTIVE

SUBSTANCES AND
MIXTURES and ORGANIC

PEROXIDES

Quantity 1 50 t

Quantity 2

200 t

Other regulations:

Gefahrgruppe nach DGUV 13 Vorschrift 13 (bisher BGV B4): la (German regulatory requirements)

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

TCSI (TW) : On the inventory, or in compliance with the inventory

TSCA (US) : All substances listed as active on the TSCA inventory

AIIC (AU) : On the inventory, or in compliance with the inventory

DSL (CA) : All components of this product are on the Canadian DSL

ENCS (JP) : On the inventory, or in compliance with the inventory

ISHL (JP) : On the inventory, or in compliance with the inventory

according to Regulation (EC) No. 1907/2006

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KECI (KR) : On the inventory, or in compliance with the inventory

PICCS (PH) : On the inventory, or in compliance with the inventory

IECSC (CN) : On the inventory, or in compliance with the inventory

NZIoC (NZ) : On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance. For further information see eSDS.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

according to Regulation (EC) No. 1907/2006

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Further information

Other information This safety datasheet only contains information relating to

safety and does not replace any product information or prod-

uct specification.

These safety instructions also apply to empty packaging which

may still contain product residues.

Sources of key data used to compile the Safety Data

Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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