

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

HARDENER PASTE RED-1

Version 1.0 Revision Date: 11.08.2020 SDS Number: 400001012221 Date of last issue: -
Date of first issue: 11.08.2020

Print Date 21.08.2020

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

1.1 Product identifier

Trade name : HARDENER PASTE RED-1

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

Use of the Substance/Mixture : Adhesives and/or sealants

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA
Address : Everslaan 45
3078 Everberg
Belgium
Telephone : +41 61 299 20 41
Telefax : +41 61 299 20 40
E-mail address of person responsible for the SDS : Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

Emergency telephone number : Berlin: 0049 30 19 24 0 & 0049 30 30 68 6 7 11
Bonn: 0049 228 19 27 0 & 0049 228 28 7 3 32 11
Erfurt: 0049 361 73 07 30
Freiburg: 0049 761 16 24 0
Göttingen: 0049 51 19 24 0 & 0049 551 38 31 80
Homburg: 0049 6841 19 24 0
Mainz: 0049 6131 19 24 0 & 0049 6131 23 24 66
München: 0049 89 19 24 0
Nürnberg: 0049 911 39 8 2 45 1
EUROPE: +32 35 75 1234
France ORFILA: +33(0)145425959
ASIA: +65 6336-6011
China: +86 20 39377888
+86 532 83889090
India: + 91 22 42 87 5333
Australia: 1800 786 152
New Zealand: 0800 767 437
USA: +1/800/424.9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

Eye irritation, Category 2 H319: Causes serious eye irritation.

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Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P260 Do not breathe mist or vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391 Collect spillage.

Hazardous components which must be listed on the label:

Dibenzoyl peroxide

2,2'-oxydiethanol

dibutyl maleate

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Signal word	:	Warning
Hazard statements	:	H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P391 Collect spillage.

Hazardous components which must be listed on the label:

Dibenzoyl peroxide

2,2'-oxydiethanol

dibutyl maleate

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Dibenzoyl peroxide	94-36-0 202-327-6 617-008-00-0	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 50 - < 70

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	01-2119511472-50	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
dibutyl maleate	105-76-0 203-328-4 -	Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT RE 2; H373 (Kidney) Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1	>= 10 - < 20
2,2'-Oxydiethanol	111-46-6 203-872-2 603-140-00-6 01-2119457857-21	Acute Tox. 4; H302 STOT RE 2; H373 (Kidney, Liver, Central nervous system)	>= 10 - < 20
zinc distearate	557-05-1 209-151-9	Eye Irrit. 2; H319	>= 1 - < 10
2,6-Di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 0,25 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
Get medical attention if symptoms occur.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Avoid inhalation, ingestion and contact with skin and eyes.
No action shall be taken involving any personal risk or without suitable training.
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

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- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
Treatment with ethyl alcohol is indicated if toxic ingestion is suspected or if there is metabolic acidosis following ingestion of this product. Administer ethyl alcohol sufficient to maintain blood ethyl alcohol levels of above 100 mg/dL.

4-Methylpyrazole (Fomepizole, Antizole) is also a recognized antidote for this product.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

- Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

- Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

- Specific extinguishing methods : No data is available on the product itself.

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Further information : 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 safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Remove all sources of ignition.
Refer to protective measures listed in sections 7 and 8.

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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
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.

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Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in cool place. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Storage class (TRGS 510) : 5.2, Organic peroxides and self-reacting hazardous materials

Further information on storage stability : Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dibenzoyl peroxide	94-36-0	AGW (Inhalable fraction)	5 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	1;(I)			
2,2'-oxydiethanol	111-46-6	AGW (Vapour and aerosols)	10 ppm 44 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
2,6-di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	When there is compliance with the OEL and biological tolerance values, there			

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is no risk of harming the unborn child

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-oxydiethanol	Workers	Inhalation	Long-term systemic effects	60 mg/m ³
	Workers	Inhalation	Long-term local effects	60 mg/m ³
	Workers	Dermal	Long-term systemic effects	106 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	12 mg/m ³
	Consumers	Inhalation	Long-term local effects	12 mg/m ³
	Consumers	Dermal	Long-term systemic effects	53 mg/kg bw/day
dibutyl maleate	Workers	Dermal	Acute systemic effects	24,2 mg/kg
	Workers	Dermal	Systemic effects	
	Workers	Inhalation	Acute systemic effects	5,87 mg/m ³
	Workers	Inhalation	Systemic effects	5,87 mg/m ³
	Workers	Dermal	Acute local effects	4,13 mg/cm ²
	Workers	Dermal	Local effects	
	Workers	Inhalation	Acute local effects	5,87 mg/m ³
	Workers	Inhalation	Local effects	5,87 mg/m ³
	Workers	Dermal	Long-term systemic effects	0,42 mg/kg
	Workers	Dermal	Systemic effects	
	Workers	Inhalation	Long-term systemic effects	5,87 mg/m ³
	Workers	Inhalation	Systemic effects	5,87 mg/m ³
	Workers	Dermal	Long-term local effects	4,12 mg/cm ²
	Workers	Dermal	Local effects	
	Workers	Inhalation	Long-term local effects	5,87 mg/m ³
	Workers	Inhalation	Local effects	5,87 mg/m ³
	Consumers	Oral	Acute systemic effects	0,5 mg/kg
	Consumers	Oral	Systemic effects	
Consumers	Oral	Long-term systemic effects	0,25 mg/kg	
Consumers	Oral	Systemic effects		

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2,6-di-tert-butyl-p-cresol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
2,2'-oxydiethanol	Fresh water	10 mg/l
	Marine water	1 mg/l
	Freshwater - intermittent	10 mg/l
	Fresh water sediment	20,9 mg/kg dry weight (d.w.)
	Marine sediment	2,09 mg/kg dry weight (d.w.)
	Sewage treatment plant	199,5 mg/l
	Soil	1,53 mg/kg dry weight (d.w.)
dibutyl maleate	Fresh water	0,0012 mg/l
	Marine water	0,00012 mg/l
	Freshwater - intermittent	0,012 mg/l
	Sewage treatment plant	4,886 mg/l
	Fresh water sediment	0,06 mg/kg
	Marine sediment	0,006 mg/kg
	Soil	0,0115 mg/kg
	Secondary Poisoning	6,33 mg/kg
2,6-di-tert-butyl-p-cresol	Fresh water	0,199 µg/l
Remarks:	Assessment Factors	
	Marine water	0,02 µg/l
Remarks:	Assessment Factors	
	Sewage treatment plant	0,17 mg/l
Remarks:	Assessment Factors	
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
Remarks:	Equilibrium method	

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	Marine sediment	0,00996 mg/kg dry weight (d.w.)
	Equilibrium method	
	Soil	0,04769 mg/kg dry weight (d.w.)
	Equilibrium method	
	Oral	8,33 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection :
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Filter type : Combined particulates and organic vapour type (A-P)

In the case of vapour formation use a respirator with an approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste
Colour : red
Odour : slight
Odour Threshold : No data is available on the product itself.
pH : No data is available on the product itself.
Melting point : -10 °C

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Boiling point	:	No data is available on the product itself.
Flash point	:	No data is available on the product itself.
Evaporation rate	:	No data is available on the product itself.
Flammability (solid, gas)	:	No data is available on the product itself.
Burning rate	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	:	No data is available on the product itself.
Lower explosion limit / Lower flammability limit	:	No data is available on the product itself.
Vapour pressure	:	No data is available on the product itself.
Relative vapour density	:	No data is available on the product itself.
Relative density	:	1,139 (20 °C)
Density	:	1,139 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	insoluble (20 °C)
Solubility in other solvents	:	No data is available on the product itself.
Partition coefficient: n-octanol/water	:	No data is available on the product itself.
Auto-ignition temperature	:	No data is available on the product itself.
Decomposition temperature	:	50 °C Method: Measured
Viscosity		
Viscosity, dynamic	:	thixotropic
Explosive properties	:	No data is available on the product itself.
Oxidizing properties	:	No data is available on the product itself.

9.2 Other information

Self-Accelerating decomposition temperature (SADT)	:	50 °C
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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials.
No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide
carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : > 2 000 mg/kg
Method: Calculation method

Components:

Dibenzoyl peroxide:

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

dibutyl maleate:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5000 mg/m³
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

zinc distearate:

Acute inhalation toxicity : LC50 (Rat): > 50 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist

Components:

dibutyl maleate:

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

2,2'-oxydiethanol:

Acute dermal toxicity : LD50 (Rabbit): 12 500 mg/kg

zinc distearate:

Acute dermal toxicity : LD50 (Rabbit): > 2 000 mg/kg

2,6-di-tert-butyl-p-cresol:

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation

Components:

Dibenzoyl peroxide:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

dibutyl maleate:

Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation

2,2'-oxydiethanol:

Species: Rabbit
Assessment: No skin irritation
Result: No skin irritation

zinc distearate:

Assessment: No skin irritation
Result: No skin irritation

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2,6-di-tert-butyl-p-cresol:
Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Components:

Dibenzoyl peroxide:
Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritating to eyes.

dibutyl maleate:
Species: Rabbit
Assessment: No eye irritation
Method: OECD Test Guideline 405
Result: No eye irritation

2,2'-oxydiethanol:
Species: Rabbit
Exposure time: 24 h
Assessment: No eye irritation
Result: No eye irritation
Remarks: No eye irritation

zinc distearate:
Assessment: Mild eye irritant
Result: slight irritation

2,6-di-tert-butyl-p-cresol:
Species: Rabbit
Assessment: No eye irritation
Method: OECD Test Guideline 405
Result: No eye irritation
GLP: yes

Respiratory or skin sensitisation

Components:

Dibenzoyl peroxide:
Exposure routes: Skin
Species: Mouse
Assessment: May cause sensitisation by skin contact.
Method: OECD Test Guideline 429
Result: Causes sensitisation.

dibutyl maleate:
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: May cause sensitisation by skin contact.

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2,2'-oxydiethanol:
Exposure routes: Skin
Species: Guinea pig
Method: Directive 67/548/EEC, Annex V, B.6.
Result: Does not cause skin sensitisation.

2,6-di-tert-butyl-p-cresol:
Exposure routes: Skin
Species: Humans
Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

Dibenzoyl peroxide:
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

: Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

dibutyl maleate:
Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

: Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

: Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: positive

2,6-di-tert-butyl-p-cresol:
Genotoxicity in vitro : Test Type: reverse mutation assay
Metabolic activation: with and without metabolic activation
Result: negative

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: Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Result: negative

Components:

Dibenzoyl peroxide:
Genotoxicity in vivo

: Cell type: Somatic
Application Route: Intraperitoneal injection
Dose: 0, 50, 100, 200 mg/kg b.w.
Method: OECD Test Guideline 474
Result: negative

dibutyl maleate:
Genotoxicity in vivo

: Test Type: Micronucleus test
Test species: Mouse (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

2,2'-oxydiethanol:
Genotoxicity in vivo

: Cell type: Somatic
Application Route: Intraperitoneal injection
Dose: 500 - 2000 mg/kg
Method: OECD Test Guideline 474
Result: negative

2,6-di-tert-butyl-p-cresol:
Genotoxicity in vivo

: Application Route: Intraperitoneal injection
Dose: 75 mg/kg
Result: negative

Application Route: Oral
Exposure time: 9 Months
Dose: ca 750 mg/kg
Result: negative

Germ cell mutagenicity-
Assessment

: No data available

Carcinogenicity

Components:

Dibenzoyl peroxide:
Species: Mouse, male and female
Application Route: Dermal
Exposure time: 104 weeks

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Result: negative

2,2'-oxydiethanol:

Species: Rat, male and female

Application Route: Oral

Exposure time: 108 weeks

Dose: 1160 - 1210 mg/kg

Frequency of Treatment: 7 daily

Result: negative

2,6-di-tert-butyl-p-cresol:

Species: Rat, male and female

Application Route: Oral

Result: negative

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Components:

Dibenzoyl peroxide:

Effects on fertility

: Species: Rat, male and female
Application Route: Oral
Dose: 0, 250, 500, 1,000 mg/kg b.w/
General Toxicity - Parent: No observed adverse effect level:
500 mg/kg body weight
General Toxicity F1: No observed adverse effect level: 500
mg/kg body weight
Method: OECD Test Guideline 422

dibutyl maleate:

Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 422

2,2'-oxydiethanol:

Species: Mouse, male and female
Application Route: Oral
Dose: 3060 milligram per kilogram

2,6-di-tert-butyl-p-cresol:

Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 25/100/500 mg/kg bw/day
General Toxicity - Parent: No observed adverse effect level:
100 mg/kg body weight
General Toxicity F1: No observed adverse effect level: 25
mg/kg body weight
Result: negative
GLP: no

Components:

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Dibenzoyl peroxide:

Effects on foetal development

: Species: Rat
Dose: 100, 300 or 1000 mg/kg/day
General Toxicity Maternal: No observed adverse effect level:
300 mg/kg body weight
Developmental Toxicity: No observed adverse effect level:
300 mg/kg body weight
Method: OECD Test Guideline 414

2,2'-oxydiethanol:

Species: Rabbit
Application Route: Oral
Dose: 1000 milligram per kilogram
Method: OECD Test Guideline 414
Result: No teratogenic effects

2,6-di-tert-butyl-p-cresol:

Test Type: Pre-natal
Species: Mouse, female
Application Route: Oral
Duration of Single Treatment: 7 d
General Toxicity Maternal: No observed adverse effect level:
240 mg/kg body weight
Developmental Toxicity: No observed adverse effect level:
800 mg/kg body weight
Target Organs: spleen, Kidney

Reproductive toxicity - Assessment

: No data available

STOT - single exposure

Components:

2,2'-oxydiethanol:

Target Organs: Central nervous system, Kidney

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

STOT - repeated exposure

Components:

dibutyl maleate:

Exposure routes: Ingestion

Target Organs: Kidney, Liver

Assessment: May cause damage to organs through prolonged or repeated exposure.

2,2'-oxydiethanol:

Exposure routes: Ingestion

Target Organs: Kidney, Liver, Central nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

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Dibenzoyl peroxide:
Species: Rat, male and female
NOAEL: > 100 mg/kg
Application Route: Skin contact
Number of exposures: 2 years
Method: OECD Test Guideline 451

dibutyl maleate:
Species: Rat, male and female
LOAEL: 30 mg/kg
Application Route: Ingestion
Exposure time: 2 160 hNumber of exposures: 7 d
Method: Subchronic toxicity
Target Organs: Kidney

Species: Rat, male and female
NOAEL: 95 mg/kg
Application Route: oral (gavage)
Method: Subacute toxicity
Target Organs: Kidney, Liver

2,2'-oxydiethanol:
Species: Rat, male and female
NOAEL: 100 mg/kg
Application Route: Ingestion
Exposure time: 225 dNumber of exposures: 7 d/w
Method: Subchronic toxicity

Species: Rat, male and female
NOEL: 150 mg/kg
Application Route: Ingestion
Exposure time: 28 dMethod: Subacute toxicity

Species: Dog, male
NOAEL: 8000 mg/kg
Application Route: Skin contact
Exposure time: 28 dNumber of exposures: 7 d
Method: Subacute toxicity

2,6-di-tert-butyl-p-cresol:
Species: Pig, male and female
NOAEL: >= 61 mg/kg
Application Route: oral (feed)
Exposure time: daily Method: Chronic toxicity

Repeated dose toxicity - : No data available
Assessment

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

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Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Dibenzoyl peroxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,0602 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,11 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EbC50 (Selenastrum capricornutum (green algae)): 0,0422
plants mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

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- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to microorganisms : EC50 (activated sludge): 35 mg/l
Exposure time: 0,5 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,001 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
- M-Factor (Chronic aquatic toxicity) : 10
- dibutyl maleate:
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,2 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203
- LC50 (Oncorhynchus mykiss (rainbow trout)): 0,6 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 21 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 6,2 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201
- NOEC (Desmodesmus subspicatus (green algae)): 4,2 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): 488,6 mg/l
Exposure time: 3 h

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Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

2,2'-oxydiethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 75 200 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Remarks: Toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 000 mg/l
Exposure time: 24 h
Test Type: static test
Test substance: Fresh water
Method: DIN 38412

Toxicity to microorganisms : IC50 : > 1 000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 15 380 mg/l
Exposure time: 17 d
Species: Pimephales promelas (fathead minnow)
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 8 590 mg/l
Exposure time: 7 d
Species: Ceriodaphnia (water flea)
Test Type: static test
Test substance: Fresh water

2,6-di-tert-butyl-p-cresol:

Toxicity to fish : LC50 (Fish): 0,199 mg/l
Exposure time: 96 h
Test substance: Fresh water
Method: QSAR
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,24 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,24

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mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : ErC50 (activated sludge): 1,7 mg/l
Exposure time: 24 h
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC: 0,053 mg/l
Exposure time: 30 d
Species: Oryzias latipes (Orange-red killifish)
Test substance: Fresh water
Method: OECD Test Guideline 210
GLP: yes

NOEC: >= 23,8 mg/l
Exposure time: 70 d
Species: Fish
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 0,096 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test substance: Fresh water
Method: OECD Test Guideline 211
GLP: yes

NOEC: 0,069 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test substance: Fresh water
Method: OECD Test Guideline 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

Components:

Dibenzoyl peroxide:

Biodegradability : Inoculum: activated sludge
Concentration: 4 mg/l
Result: Readily biodegradable.
Biodegradation: 68 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

dibutyl maleate:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.

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Biodegradation: 95 %
Exposure time: 19 d
Method: Directive 67/548/EEC Annex V, C.4.B.

2,2'-oxydiethanol:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: >= 70 %
Exposure time: 10 - 29 d

zinc distearate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d

Biochemical Oxygen Demand (BOD) : 135 mg/l
Incubation time: 28 d
Method: OECD Test Guideline 301D

Chemical Oxygen Demand (COD) : 145 mg/l

2,6-di-tert-butyl-p-cresol:

Biodegradability : Result: Not biodegradable

12.3 Bioaccumulative potential

Components:

Dibenzoyl peroxide:
Partition coefficient: n-octanol/water : log Pow: 3,2 (22 °C)
pH: 7,02
Method: OECD Test Guideline 117

dibutyl maleate:
Bioaccumulation : Bioconcentration factor (BCF): 81,34

Partition coefficient: n-octanol/water : log Pow: 3,39 (25 °C)
pH: 7
Method: OECD Test Guideline 117

2,2'-oxydiethanol:
Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Exposure time: 3 d
Bioconcentration factor (BCF): 100
Test substance: Fresh water
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: -1,98 (25 °C)

zinc distearate:
Partition coefficient: n-octanol/water : log Pow: 1,2

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2,6-di-tert-butyl-p-cresol:
Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 28 d
Bioconcentration factor (BCF): 330 - 1 800
Method: flow-through test

Partition coefficient: n-
octanol/water : log Pow: 5,2
GLP: yes

12.4 Mobility in soil

Components:

Dibenzoyl peroxide:
Distribution among : Koc: 6309,57
environmental compartments Method: OECD Test Guideline 121

2,6-di-tert-butyl-p-cresol:
Distribution among : Koc: 8183
environmental compartments

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 Other adverse effects

Product:

Additional ecological : An environmental hazard cannot be excluded in the event of
information unprofessional handling or disposal.
Very toxic 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 chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of contents/ container to an approved waste disposal plant.

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.

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SECTION 14: Transport information

IATA

14.1 UN number : UN 3108
14.2 UN proper shipping name : Organic peroxide type E, solid
14.3 Transport hazard class(es) : 5.2
: Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat
Packing instruction (cargo aircraft) : 570
Packing instruction (passenger aircraft) : 570

IMDG

14.1 UN number : UN 3108
14.2 UN proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID
: ()
14.3 Transport hazard class(es) : 5.2
14.4 Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R
14.5 Environmental hazards
Marine pollutant : yes

ADR

14.1 UN number : UN 3108
14.2 UN proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID
14.3 Transport hazard class(es) : 5.2
14.4 Packing group : Not assigned by regulation
Labels : 5.2
14.5 Environmental hazards
Environmentally hazardous : yes

RID

14.1 UN number : UN 3108
14.2 UN proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID
14.3 Transport hazard class(es) : 5.2
14.4 Packing group : Not assigned by regulation
Labels : 5.2
14.5 Environmental hazards
Environmentally hazardous : yes

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - List of substances subject to authorisation - Future sunset date : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

E1 ENVIRONMENTAL HAZARDS

Water contaminating class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
Not applicable
: Inorganic substances in powdered form:
Not applicable
: Inorganic substances in vapour or gaseous form:
Not applicable
: Organic Substances:
portionClass 1: 51 %

: Carcinogenic substances:
Not applicable
: Mutagenic:
Not applicable
: Toxic to reproduction:
Not applicable

Other regulations:

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:

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

AICS : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

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

TCSI : Not in compliance with the inventory

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOIC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Full text of H-Statements

H241 : Heating may cause a fire or explosion.

H302 : Harmful if swallowed.

H317 : May cause an allergic skin reaction.

H319 : Causes serious eye irritation.

H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation

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Org. Perox.	: Organic peroxides
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW	: Time Weighted Average

Further information

Classification of the mixture:

Org. Perox. E	H242
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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