

Printing date 29.12.2023 Version: 8 (replaces version 7) Revision: 26.06.2023

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

· 1.1 Product identifier

PEROXAN DB-50 · Trade name:

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

No further relevant information available.

· Application of the substance /

the mixture

Reaction initiator For industrial use

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: PERGAN GmbH

Hilfsstoffe für industrielle Prozesse

Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50

· Further information obtainable

Environment protection / Security of labour from:

Qualified person: E-mail: msds@pergan.com

1.4 Emergency telephone

- Tel: +49 2871 9902-0 number:

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Org. Perox. F H242 Heating may cause a fire.

Muta. 2 H341 Suspected of causing genetic defects. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation. Hazard pictograms



· Signal word Danger

· Hazard-determining

components of labelling: di-tert-butyl peroxide

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

· Hazard statements H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H341 Suspected of causing genetic defects. H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210 · Precautionary statements

P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and

accelerators (e. g. heavy metal compounds and amines).

Keep only in original packaging. P234

Take action to prevent static discharges. P243 P273 Avoid release to the environment.

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

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

P331 Do NOT induce vomiting.

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

water

P405 Store locked up. P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding +40°C. Keep cool.

P420 Store separately

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information: Contains tert-butyl hydroperoxide. May produce an allergic reaction.

2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

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· vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
CAS: 110-05-4 EINECS: 203-733-6 Index number: 617-001-00-2 Reg-No.: 01-2119513335-48	di-tert-butyl peroxide Flam. Liq. 2, H225; Org. Perox. E, H242; Muta. 2, H341; Aquatic Chronic 3, H412	40-50%
CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	40-50%
CAS: 75-91-2 EINECS: 200-915-7 Reg-No.: 01-2119446670-40	tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	≤0.1%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information:

Take care of personal protection for the first aider.

· After inhalation: Take affected persons into fresh air and keep quiet.

· After skin contact: Immediately remove contaminated clothing.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

 4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate

medical attention and special

treatment needed

No further relevant information available.

No further relevant information available

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from

the substance or mixture Under certain fire conditions, traces of other toxic gases cannot be excluded.

Hydrocarbons, carbondioxide and -monoxid.

5.3 Advice for firefighters

· Protective equipment: Do not inhale explosion gases or combustion gases. Additional information Cool endangered receptacles with water spray.

Self-protection first!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

In case of further temperature should be cooled with waterspray from a safe distance.

Wear breathing apparatus with filter A during decomposition of materials.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before

disposal.

Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government

regulations.

· 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

In case of large spillage the environmental authority should be informed

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Do not refill residue into storage receptacles. Restrict the quantity stored at the work place.

Use only in well ventilated areas.

Before break and at the end of work hands should be thoroughly washed.

Only use tools made of suitable materials (e. g. polyethylene or stainless steel).

Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-

metal compounds and amines). While using do not eat, drink or smoke. Do not generate flames or sparks.

Keep product and emptied container away from heat and sources of ignition.

Avoid shock and friction.

Take precautionary measures against static discharges.



Do not smoke.

· Information about fire - and explosion protection:

Protect from heat

Protect against electrostatic charges.

Prevent impact and friction.

Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture.



Wear shoes with conductive soles.

Formation of flammable or explosive gas/air-mixtures is possible.



Avoid open flames, sparks, direct sunlight and other sources of ignition.

Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

Requirements to be met by storerooms and receptacles:

Store in a cool location. Store only in the original receptacle.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

Information about storage in one common storage facility:

Do not store or park organic peroxide together with heavy metal compounds and amines.

Store away from foodstuffs, drinks and feeding stuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from contamination.

Store in a cool place.

Recommended storage temperature (To maintain quality):

max.: +40 °C

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· 7.3 Specific end use(s) No further relevant information available

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be

monitored at the workplace.

· DNELs				
110-05-4 di-tert-butyl peroxide				
Dermal	DNEL Longterm System	3 mg/kg bw/day (Worker)		
Inhalative	DNEL Longterm System	20 mg/m3 (Worker)		
75-91-2 tert-butyl hydroperoxide				
Dermal	DNEL Longterm System	0.21 mg/kg bw/day (Worker)		
Inhalative	DNEL Acute Systemic	85.2 mg/m3 (Worker)		
	DNEL Acute Local	28.4 mg/m3 (Worker)		
	DNEL Longterm System	2.2 mg/m3 (Worker)		
	DNEL Longterm Local	0.58 mg/m3 (Worker)		
DNEC				

· PNECs

110-05-4 di-tert-butyl peroxide

PNEC Marinewater sed | 1.5 mg/kg sed dw (-) **PNEC Freshwater** 0.144 mg/l (AF 50) PNEC Freshwater sed 15 mg/kg sed dw (-) PNEC Soil 2.94 mg/kg soil dw (-) PNEC STP 10 mg/l (AF 100) **PNEC Marinewater** 0.014 mg/l (AF 500)

75-91-2 tert-butyl hydroperoxide

PNEC Marinewater sed | 0.001 mg/kg sed dw **PNEC Freshwater** 0.002 mg/l (AF 1.000) **PNEC Seawater** 0 mg/l (AF 10.000) PNEC Freshwater sed 0.006 mg/kg sed dw (-) PNEC Soil 0.166 mg/kg soil dw (AF 1.000) PNEC STP 0.17 mg/l (AF 100)

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

Appropriate engineering

controls No further data; see section 7. · Individual protection measures, such as personal protective equipment

General protective and

The usual precautionary measures are to be adhered to when handling chemicals. hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

Be sure to clean skin thoroughly after work and before breaks.

· Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer

exposure use self-contained respiratory protective device.

Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.



Filter A2

· Hand protection Only use chemical-protective gloves with CE-labelling of category III.

degradation

Selection of the glove material on consideration of the penetration times, rates of diffusion and the

Protective gloves

 Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of

quality and varies from manufacturer to manufacturer.

Butyl rubber, BR

Fluorocarbon rubber (Viton)

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Nitrile rubber, NBR

Neoprene

Penetration time of glove material

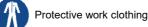
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

· Eye/face protection



Tightly sealed goggles

· Body protection:



SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical propertie 	9.1 Information	n basic ph	vsical and che	mical properties
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· General Information

· Colour: colourless - yellowish Odour: Characteristic · Odour threshold: Not determined. Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. · Flammability Not applicable.

Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. Flash point: 10 °C

· Decomposition temperature: +80 °C (SADT) · pH Not determined.

· Viscosity:

· Kinematic viscosity Not determined · Dynamic: Not determined. Solubility · water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined

Vapour pressure:

Density and/or relative density

· Density: Not determined. Not determined. Relative density Vapour density Not determined

9.2 Other information No further relevant information available.

Appearance:

Form: Fluid · Important information on protection of health and environment,

and on safety.

Ignition temperature: Product is not selfigniting. Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Not determined.

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void

Flammable liquids Highly flammable liquid and vapour.

Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in

contact with water Void Oxidising liquids Void Oxidising solids Void

Heating may cause a fire. · Organic peroxides

Corrosive to metals Void

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Desensitised explosives

Void

Other safety characteristics
Active oxygen

ca. 5.5 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

 Thermal decomposition / conditions to be avoided:

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause

decomposition at and above the temperature. Contact with incompatible substances can cause

decomposition at or below the SADT

No decomposition if used and stored according to specifications.

To avoid thermal decomposition do not overheat.

· 10.3 Possibility of hazardous

reactions

Self-accelerating decomposition at SADT.

· 10.4 Conditions to avoid

· Additional information:

No further relevant information available.

· 10.5 Incompatible materials: Rapid deco

Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

heavy-metal compounds and amines).

10.6 Hazardous decomposition

products:

Hydrocarbons, carbondioxide and -monoxid.

No hazardous decomposition products if used and stored according to specifications.

Emergency procedures will vary depending on conditions. The customer should have an emergency

response plane in place.

SECTION 11: Toxicological information

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

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

110-05-4	di-tert-buty	I peroxide

Oral LD50 >25,000 mg/kg (rattus)
Dermal LD50 >19,000 mg/kg (mus)
Inhalative LC50 / 4h >24.5 mg/l (rattus)

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

Oral LD50 >5,000 mg/kg (rattus)

75-91-2 tert-butyl hydroperoxide

 Oral
 LD50
 805 mg/kg /(70%) (rattus)

 Dermal
 LD50
 633 mg/kg /(70%) (cuniculosus)

 Inhalative
 LC50 / 4h
 1.2 mg/l /(70%) (rattus)

· Skin corrosion/irritation · Serious eye damage/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

sensitisationBased on available data, the classification criteria are not met. **Germ cell mutagenicity**Suspected of causing genetic defects.

Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

Aspiration hazard May be fatal if swallowed and enters airways.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

EC50 / 48h | >0.04 mg/l (daphnia) IC50 / 72h | >0.04 mg/l (alga)

75-91-2 tert-butyl hydroperoxide

EC50 / 72h | 2.1 mg/l /(70%) (selenastrum capricornutum) LC50 / 96h | 42.3 mg/l /(70%) (pimephales promelas) EC50 | 24.3 mg/l /(70%) (activa sludge) EC50 / 48h | 20 mg/l /(70%) (daphnia magna)

12.2 Persistence and degradability

Degree of elimination:

· Classification:

110-05-4 di-tert-butyl peroxide

Degradation (Not readily biodegradable) (OECD 301 D)

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

Degradation (Not readily biodegradable)

75-91-2 tert-butyl hydroperoxide

Degradation (Not readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

Partition coefficient: nOctanol/water: [Log Kow]		
110-05-4 di-tert-butyl peroxide	3,2 (22°C)	
75-65-0 2-methylpropan-2-ol	0,32 (20°C)	
75-91-2 tert-butyl hydroperoxide	0,85 (30 °C)	

• 12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

• PBT: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
• vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

· 12.6 Endocrine disrupting

properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effectsNo further relevant information available.

· Remark: Harmful to fish

· Additional ecological information:

· General notes: Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation



After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• Waste disposal key: Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

number.

· Uncleaned packaging:

• Recommendation: This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN3109

· 14.2 UN proper shipping name

ADR UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (DI-tert-BUTYL PEROXIDE)

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· IMDG, IATA ORGANIC PEROXIDE TYPE F, LIQUID (DI-tert-BUTYL PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR



· Class 5.2 (P1) Organic peroxides.

Label

· IMDG, IATA



· Class 5.2 Organic peroxides.

Label

· 14.4 Packing group

Void · ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Warning: Organic peroxides.

· Hazard identification number (Kemler code):

· Stowage Category D

· Stowage Code SW1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.

SG72 See 7.2.6.3.2.

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

· ADR

125 ml · Limited quantities (LQ)

· Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity

· Transport category 2

· Tunnel restriction code D

· RID / GGVSEB: like ADR

· Limited quantities (LQ)

125 ml Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act

· IMDG

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Qualifying quantity (tonnes) for the application of lower-tier requirements

50 t

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Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex

None of the ingredients is listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

Other regulations, limitations and prohibitive regulations

· Please note: Take care of the respective local regulations.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour. H242 Heating may cause a fire. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Department issuing SDS: Environment protection / Security of labour

· Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

INDICS. International Maritime Code for Dangerous Goos
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

vPvB: very Persistent and very Broaccumulati Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. E: Organic peroxides – Type E/F Org. Perox. F: Organic peroxides – Type E/F Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 2 Skip Corr. 1C: Skip corresion/irritation – Category 2

Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity - Category 2

Carc. 2: Carcinogenicity – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

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Safety data sheet according to 1907/2006/EC, Article 31



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Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* Data compared to the previous version altered.