

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 23.11.2022

Version number 34 (replaces version 33)

Revision: 23.11.2022

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

- 1.1 Product identifier
- Trade name: Hardener Paste white
- Article number: 30405, 30406, 30407, 30408, 30409, 30410, 30411, 30420, 30428, 30433, 30438
- 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 Hardening agent/ Curing agent
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de
- Further information obtainable from: Laboratory
- 1.4 Emergency telephone number: Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
- Org. Perox. E H242 Heating may cause a fire.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Aquatic Acute 1 H400 Very toxic to aquatic life.
- Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
- Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Wash with plenty of water.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- Storage: Protect from sunlight. Store in a well-ventilated place.
Store in a well-ventilated place. Keep cool.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

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



GHS02 GHS07 GHS09

- Signal word Warning
- Hazard-determining components of labelling: dibenzoyl peroxide
- Hazard statements H242 Heating may cause a fire.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

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· <u>Precautionary statements</u>	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read carefully and follow all instructions.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220	Keep away from reducing agents, heavy metal compounds, acids and alkalis.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P410	Protect from sunlight.
	P411+P235	Store at temperatures not exceeding 25°C. Keep cool.
	P420	Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards· Results of PBT and vPvB assessment· PBT: Not applicable.· vPvB: Not applicable.**SECTION 3: Composition/information on ingredients**· 3.2 Mixtures· Description: Mixture: consisting of the following components.· Dangerous components:

CAS: 94-36-0	dibenzoyl peroxide	25-50%
EINECS: 202-327-6	Org. Perox. B, H241	
Index number: 617-008-00-0	Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	
Reg.nr.: 01-2119511472-50	Eye Irrit. 2, H319; Skin Sens. 1, H317	

· 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

· <u>General information:</u>	Personal protection for the First Aider. Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product.
	Immediately remove any clothing soiled by the product.
· <u>After inhalation:</u>	Take affected persons into fresh air and keep quiet. Supply fresh air and to be sure call for a doctor.
	In case of unconsciousness place patient stably in side position for transportation.
· <u>After skin contact:</u>	If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly.
	Immediately rinse with water.
· <u>After eye contact:</u>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
	Rinse out mouth and then drink plenty of water.
· <u>After swallowing:</u>	Seek immediate medical advice.

· 4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

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- Hazards Danger of impaired breathing.
- 4.3 Indication of any immediate medical attention and special treatment needed If swallowed, gastric irrigation with added, activated carbon.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- 5.3 Advice for firefighters
- Protective equipment: Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
Wear fully protective suit.
- Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources.
Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Pick up mechanically.
Do not allow to dry out
- 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Use only in well ventilated areas.
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
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.

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· Information about fire - and explosion protection:

Ensure that suitable extractors are available on processing machines
Handle with care. Avoid jolting, friction and impact.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Substance/product is oxidising when dry.
Protect from heat.
Keep ignition sources away - Do not smoke.
Use explosion-proof apparatus / fittings and spark-proof tools.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Use only receptacles specifically permitted for this substance/product.
Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from foodstuffs.
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

· Further information about storage conditions:

Protect from contamination.
Store in a cool place.
Protect from frost.
Keep container tightly sealed.

· Storage class:

5.2

· 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

94-36-0 dibenzoyl peroxide

Oral	DNEL (Langzeit-wiederholt)	1.65 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	13.3 mg/kg bw/day (ARB)
Inhalative	DNEL (Langzeit-wiederholt)	39 mg/m ³ Air (ARB)
		3.84 mg/m ³ Air (BEV)

· PNECs

94-36-0 dibenzoyl peroxide

PNEC (wässrig)	0.35 mg/l (KA)
	0.000002 mg/l (MW)
	0.00002 mg/l (SW)
	0.000602 mg/l (WAS)
PNEC (fest)	0.0025 mg/kg Trockengew (BO)
	0.00127 mg/kg Trockengew (MWS)
	0.0127 mg/kg Trockengew (SWS)

· Additional information:

The lists valid during the making were used as basis.

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· 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

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

Avoid close or long term contact with the skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

Filter A/P2

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.

· Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

ARRETIL (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

STOKO VITAN (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

Kresto Classic (<http://debstoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

SOLOPOL (<http://www.stoko.com>)

· Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

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- Neoprene 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material Value for the permeation: Level I 6, 480 min
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - For the permanent contact gloves made of the following materials are suitable:
 - Fluorocarbon rubber (Viton)
 - Vitoject (KCL, Art_No. 890)
 - Nitrile rubber, NBR
 - Camatril (KCL, Art_No. 730, 731, 732, 733)
 - Neoprene gloves
 - Nitopren (KCL, Art_No. 717)
 - Butyl rubber, BR
 - Butoject (KCL, Art_No. 897, 898)
 - As protection from splashes gloves made of the following materials are suitable:
 - Nitrile rubber, NBR
 - Camatril (KCL, 730, 731, 732, 733)
 - Butoject (KCL, Art_No. 897, 898)
 - Butyl rubber, BR
 - Not suitable are gloves made of the following materials:
 - Natural rubber, NR
 - Leather gloves
 - Strong material gloves
 - Eye/face protection
 Tightly sealed goggles
 - Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Colour: White
- Odour: Specific type
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Undetermined.
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: Not determined.
- Upper: Not determined.
- Flash point: Not applicable.
- pH at 20 °C 4-5
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined.

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· Vapour pressure at 20 °C:	23 hPa
· Density and/or relative density	
· Density at 20 °C:	1.14-1.2 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information	
· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	SADT 50°C
· Solvent content:	
· Water:	10.0 %
· 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	Void
· 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
	Void

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- | | |
|----------------------------------|---------------------------|
| · <u>Oxidising liquids</u> | Void |
| · <u>Oxidising solids</u> | Void |
| · <u>Organic peroxides</u> | |
| | Heating may cause a fire. |
| · <u>Corrosive to metals</u> | |
| | Void |
| · <u>Desensitised explosives</u> | |
| | Void |

SECTION 10: Stability and reactivity

- | | |
|--|---|
| · <u>10.1 Reactivity</u> | No further relevant information available. |
| · <u>10.2 Chemical stability</u> | |
| · <u>Thermal decomposition / conditions to be avoided:</u> | No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.
SDAT (Self Accelerating Decomposition Temperature) ist die tiefste Temperatur, bei der selbst beschleunigende Zersetzung in der Transportverpackung auftreten kann. Eine gefährliche selbst beschleunigende Zersetzungsreaktion, unter ungünstigen Umständen Explosion oder Feuer, kann durch thermische Zersetzung bei oder oberhalb der angegebenen Temperatur hervorgerufen werden. Kontakt mit nicht verträglichen Substanzen kann Zersetzung bei oder unterhalb der SADT hervorrufen. |
| · <u>10.3 Possibility of hazardous reactions</u> | Reacts with heavy metals.
Reacts with amines.
Reacts with strong alkali.
Reacts with strong acids. |
| · <u>10.4 Conditions to avoid</u> | No further relevant information available. |
| · <u>10.5 Incompatible materials:</u> | No further relevant information available. |
| · <u>10.6 Hazardous decomposition products:</u> | Carbon monoxide and carbon dioxide |

SECTION 11: Toxicological information

- | | |
|--|---|
| · <u>11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008</u> | |
| · <u>Acute toxicity</u> | Based on available data, the classification criteria are not met. |

· LD/LC50 values relevant for classification:

94-36-0 dibenzoyl peroxide

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>24.3 mg/l (rat)

- | | |
|--|---|
| · <u>Skin corrosion/irritation</u> | Based on available data, the classification criteria are not met. |
| · <u>Serious eye damage/irritation</u> | Causes serious eye irritation. |
| · <u>Respiratory or skin sensitisation</u> | May cause an allergic skin reaction. |
| · <u>Germ cell mutagenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Carcinogenicity</u> | Based on available data, the classification criteria are not met. |
| · <u>Reproductive toxicity</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-single exposure</u> | Based on available data, the classification criteria are not met. |
| · <u>STOT-repeated exposure</u> | Based on available data, the classification criteria are not met. |

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- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

- Endocrine disrupting properties
- None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity· Aquatic toxicity:

94-36-0 dibenzoyl peroxide

EC50	35 mg/l (bacteria)
LC50	>1,000 mg/l (Eisenia fetida (Regenwürmer))
EC50/48h	0.11 mg/l (daphnia magna)
ErC50/72h	0.0711 mg/l (Pseudokirchneriella subcapitata)
EC10	0.001 mg/l (daphnia magna)
EC50/48h	0.11 mg/l (daphnia magna)
EC50/72h	0.0711 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	0.0602 mg/l (Oncorhynchus mykiss)
	2 mg/l (poecilia reticulata)

· 12.2 Persistence and degradability

No further relevant information available.

· 12.3 Bioaccumulative potential

No further relevant information available.

· 12.4 Mobility in soil

No further relevant information available.

· 12.5 Results of PBT and vPvB assessment· PBT:

Not applicable.

· vPvB:

Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects· Additional ecological information:· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods· Recommendation

Must be specially treated adhering to official regulations.
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 09 00	oxidising substances
16 09 03*	peroxides, for example hydrogen peroxide

· Uncleaned packaging:· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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* SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3108
· 14.2 UN proper shipping name · ADR · IMDG · IATA	3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
· 14.3 Transport hazard class(es) · ADR	
 	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
· IMDG	
 	
· Class · Label	5.2 Organic peroxides. 5.2
· IATA	
	
· Class · Label	5.2 Organic peroxides. 5.2
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Stowage Code · Segregation Code	Warning: Organic peroxides. - F-J,S-R D SW1 Protected from sources of heat. 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.

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· Transport/Additional information:

- ADR
- Limited quantities (LQ) 500 g
- Excepted quantities (EQ) Code: E0
- Not permitted as Excepted Quantity
- Transport category 2
- Tunnel restriction code D

- IMDG
- Limited quantities (LQ) 500 g
- Excepted quantities (EQ) Code: E0
- Not permitted as Excepted Quantity

- UN "Model Regulation": UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE), 5.2, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· Seveso category

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
E1 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements

50 t

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

200 t

· REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

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

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· 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:

- Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles must be observed.

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· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 0.0 g/l

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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.

· Department issuing SDS: Laboratory

· Date of previous version: 06.05.2022

· Version number of previous version: 33

· 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
 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 (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Org. Perox. B: Organic peroxides – Type B
 Org. Perox. E: Organic peroxides – Type E/F
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1