# Safety data sheet
**according to UK REACH**

*Printing date 28.07.2026* *Version number 1* *Revision: 28.07.2026*

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

· ***1.1 Product identifier***

· ***Trade name:*** **PERI Sealing adhesive 4 component A**

· ***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*** Concrete adhesive

· ***1.3 Details of the supplier of the safety data sheet***
· ***Manufacturer/Supplier:***
PERI Ltd
Formwork Scaffolding Engineering
Market Harborough Road
Clifton upon Dunsmore
Rugby, CV2 0AN
United Kingdom

· ***Informing department:***
Telephone: +44 (0) 1788 86 16 00
Fax: +44 (0) 1788 86 16 10
E-Mail: info@peri.ltd.uk
www.PERI.ltd.uk

· ***1.4 Emergency telephone number:***
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

## SECTION 2: Hazards identification

· ***2.1 Classification of the substance or mixture***
· ***Classification according to Regulation (EC) No 1272/2008***


GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.


GHS07

| | |
|---|---|
| Skin Irrit. 2 | H315 Causes skin irritation. |
| Eye Irrit. 2 | H319 Causes serious eye irritation. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |

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· ***Additional information:***
The full text of the classification and labelling elements mentioned is given in Section 16.

· ***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***



GHS07 GHS09

· ***Signal word*** Warning

· ***Hazard-determining components of labelling:***
bis[4-(2,3-epoxypropoxy)phenyl]propane
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane
· ***Hazard statements***
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
· ***Precautionary statements***

| | |
|---|---|
| P261 | Avoid breathing mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves / eye protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

· ***Additional information:***
EUH205 Contains epoxy constituents. May produce an allergic reaction.
This product contains microplastics.
Restricted to professional users.
· ***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:*** Epoxy glycidyl ethers

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| · ***Dangerous components:*** | | |
|---|---|---|
| CAS: 1675-54-3<br>EINECS: 216-823-5<br>Reg.nr.: 01-2119456619-26-X | bis[4-(2,3-epoxypropoxy)phenyl]propane<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317<br>Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %<br>Skin Irrit. 2; H315: C ≥ 5 % | 25 - 50% |
| EC number: 701-263-0 | Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317 | ≥ 10 - < 25% |

· ***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*** Instantly remove any clothing contaminated by the product.
· ***After inhalation***
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness bring patient into stable side position for transport.
· ***After skin contact***
Instantly wash with water and soap and rinse thoroughly.
Call a doctor immediately.
Wash contaminated clothing before re-use.
Discard contaminated shoes.
· ***After eye contact***
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.
Call a doctor immediately.
· ***After swallowing***
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.
· ***4.2 Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

## SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents***
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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· ***For safety reasons unsuitable extinguishing agents*** Water with a full water jet.
· ***5.2 Special hazards arising from the substance or mixture***
Formation of poisonous gases during heating or in fires.
Carbon monoxide and carbon dioxide
· ***5.3 Advice for firefighters***
· ***Protective equipment:***
In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
· ***Additional information***
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Keep people at a distance and stay on the windward side.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
· ***For non-emergency personnel*** Avoid contact with the product.
· ***For emergency responders*** Put on suitable personal protective equipment.
· ***6.2 Environmental precautions:***
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.
Dispose of contaminated material as waste according to section 13.
· ***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 information on disposal.

## SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Keep containers tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid release to the environment.
· ***Information about protection against explosions and fires:*** No special measures required.

· ***Handling***
Avoid contact with eyes and skin.
Wash thoroughly after handling.

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Wash contaminated clothing before re-use.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and containers:***
Store in cool location.
Recommended storage temperature: 10°C to 30°C.
Store only in the original container.
· ***Information about storage in one common storage facility:***
Store away from oxidising agents.
Store away from foodstuffs.
· ***Further information about storage conditions:*** Store container in a well ventilated position.
· ***7.3 Specific end use(s)*** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***
· ***Components 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.
· ***Additional information:*** The lists that were valid during the compilation were used as basis.

· ***8.2 Exposure controls***
· ***Appropriate engineering controls***
Care for good ventilation, i.e. by local exhaust or general exhaust ventilation. If this is not sufficient to keep the concentration of solvent vapours below workplace threshold values an appropriate protective breathing apparatus shall be worn.
· ***Individual protection measures, such as personal protective equipment***
· ***General protective and hygienic measures***
Keep away from foodstuffs, beverages and food.
Take off all contaminated clothing immediately.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
· ***Breathing equipment:***
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Filter A/P2.
· ***Hand protection***



Protective gloves.

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

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

· ***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. 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***
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)
In case of a layer thickness of 0.4 mm the penetration time is longer than 30 minutes.

· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Butyl rubber, BR
Nitrile rubber, NBR

· ***Eye/face protection***



Tightly sealed safety glasses.

· ***Body protection:***



Protective work clothing.

## SECTION 9: Physical and chemical properties

| | |
|---|---|
| · ***9.1 Information on basic physical and chemical properties*** | |
| · ***General Information*** | |
| · ***Colour:*** | Pigmented |
| · ***Odour:*** | Weak |
| · ***Melting point/freezing point:*** | Not determined |
| · ***Boiling point or initial boiling point and boiling range*** | Not determined |
| · ***Lower and upper explosion limit*** | |
| · ***Lower:*** | Not determined |
| · ***Upper:*** | Not determined |
| · ***Flash point:*** | > 93 °C |
| · ***Auto-ignition temperature:*** | Product is not selfigniting. |

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| | |
|---|---|
| · **SADT** | |
| · **pH** | Not determined |
| · **Viscosity:** | |
| · **Kinematic viscosity** | Not determined |
| · **dynamic at 20 °C:** | 300300 - 450400 mPas (ISO 3219) |
| · **Solubility** | |
| · **Water:** | Not determined |
| · **Vapour pressure:** | Not determined |
| · **Density and/or relative density** | |
| · **Density at 20 °C** | 1.77 g/cm³ (ISO 2811-1) |
| · **9.2 Other information** | |
| · **Appearance:** | |
| · **Form:** | Pasty |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Self-inflammability:** | Product is not selfigniting. |
| · **Explosive properties:** | Product is not explosive. |
| · **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 |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

· ***10.1 Reactivity*** No further relevant information available.

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· ***10.2 Chemical stability***
· ***Thermal decomposition / conditions to be avoided:*** No decomposition if used according to specifications.
· ***10.3 Possibility of hazardous reactions*** Reacts with strong acids and oxidizing agents
· ***10.4 Conditions to avoid*** No further relevant information available.
· ***10.5 Incompatible materials:*** No further relevant information available.
· ***10.6 Hazardous decomposition products:***
Organic decomposition products
Carbon monoxide and carbon dioxide
Phenol

## 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 that are relevant for classification:*** | | |
|---|---|---|
| **CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane** | | |
| Oral | LD50 | > 2,000 mg/kg (Rat) |
| Dermal | LD50 | > 2,000 mg/kg (Rat) |

· ***Primary irritant effect:***
· ***Skin corrosion/irritation***
Causes skin irritation.
· ***Serious eye damage/irritation***
Causes serious eye irritation.
· ***Respiratory or skin sensitisation***
May cause an allergic skin reaction.
· ***Germ cell mutagenicity*** Based on available data, the classification criteria are not met.
· ***Carcinogenicity*** Based on available data, the classification criteria are not met.
· ***Reproductive toxicity*** Based on available data, the classification criteria are not met.
· ***STOT-single exposure*** Based on available data, the classification criteria are not met.
· ***STOT-repeated exposure*** Based on available data, the classification criteria are not met.
· ***Aspiration hazard*** Based on available data, the classification criteria are not met.
· ***Additional toxicological information:***

| · ***Repeated dose toxicity*** | | |
|---|---|---|
| **Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane** | | |
| Oral | NOAEL (28d) | 250 mg/kg bw/day (Rat) |
| Inhalative | NOAEC (2y) | 440.79 mg/m³ (Rat)<br>worker |

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· ***11.2 Information on other hazards***

| · ***Endocrine disrupting properties*** |
|---|
| None of the ingredients is listed. |

## SECTION 12: Ecological information

· ***12.1 Toxicity***

| · ***Aquatic toxicity:*** | |
|---|---|
| **CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane** | |
| EC50 (static) | 1.7 mg/l/48h (Daphnia magna) (OECD 202) |
| LC50 (static) | 1.75 mg/l/96h (Oncorhynchus mykiss) (OECD 203) |
| EC50 | 9.4 mg/l/72h (Selenastrum capricornutum) |

· ***12.2 Persistence and degradability*** The polymeric portion of the product is heavily eliminable.
· ***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***
· ***Remark:*** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
· ***Additional ecological information:***
· ***General notes:***
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

## SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
The waste code numbers mentioned are recommendations based on the probable use of the product.

| · ***European waste catalogue*** | |
|---|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and removal of paint and varnish |

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| | |
|---|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| 15 00 00 | WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED |
| 15 01 00 | packaging (including separately collected municipal packaging waste) |
| 15 01 10* | packaging containing residues of or contaminated by hazardous substances |
| HP4 | Irritant - skin irritation and eye damage |
| HP13 | Sensitising |
| HP14 | Ecotoxic |

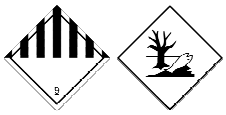
· ***Uncleaned packagings:***
· ***Recommendation:***
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be used for recycling.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

## SECTION 14: Transport information

· ***14.1 UN number or ID number***
· ***ADR/RID, IMDG, IATA*** UN3082

· ***14.2 UN proper shipping name***
· ***ADR/RID, IATA*** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
· ***IMDG*** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

· ***14.3 Transport hazard class(es)***
· ***ADR/RID***



· ***Class*** 9 (M6) Miscellaneous dangerous substances and articles.
· ***Label*** 9

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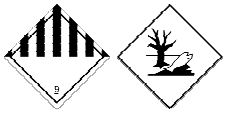
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· **IMDG, IATA**



| | |
|---|---|
| · **Class** | 9 Miscellaneous dangerous substances and articles. |
| · **Label** | 9 |
| · **14.4 Packing group** | |
| · **ADR/RID, IMDG, IATA** | III |
| · **14.5 Environmental hazards:** | |
| · **Marine pollutant:** | Symbol (fish and tree) |
| · **Special marking (ADR/RID):** | Symbol (fish and tree) |
| · **Special marking (IATA):** | Symbol (fish and tree) |
| · **14.6 Special precautions for user** | Warning: Miscellaneous dangerous substances and articles. |
| · **Kemler Number:** | 90 |
| · **EMS Number:** | F-A,S-F |
| · **Stowage Category** | A |
| · **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable |
| · **Transport/Additional information:** | |
| · **ADR/RID** | |
| · **Limited quantities (LQ)** | 5L |
| · **Excepted quantities (EQ)** | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · **Transport category** | 3 |
| · **Tunnel restriction code** | (-) |
| · **Remarks:** | **Special provision 375:** These substances when carried in single or combination packages containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of ADR/RID provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 5L |

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| | |
|---|---|
| · ***Excepted quantities (EQ)*** | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · ***Remarks:*** | **Special provision 375:** These substances when carried in single or combination packages containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of this code provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |
| · ***IATA*** | |
| · ***Remarks:*** | **Special Provision A197**: These substances are not subject to any other provisions of these Regulations when transported in single packagings or in combination packagings with a net quantity per single or inner packaging of not more than 5 L for liquids and a net mass of not more than 5 kg per single or inner packaging for solids, provided that the packagings meet the general requirements of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. |
| · ***UN "Model Regulation":*** | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9, III |

## SECTION 15: Regulatory information

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

| · ***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. |

· ***Chemical safety assessment***
· ***Named dangerous substances - ANNEX I*** None of the ingredients is listed.
· ***Seveso category*** E2 Hazardous to the aquatic environment
· ***Qualifying quantity (tonnes) for the application of lower-tier requirements*** 200 t
· ***Qualifying quantity (tonnes) for the application of upper-tier requirements*** 500 t

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· ***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. |

· ***National regulations***

· ***Information about limitation of use:***
Employment restrictions concerning women of child-bearing age must be observed.
Employment restrictions concerning young persons must be observed.

· ***15.2 Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

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

· ***Abbreviations and acronyms:***
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2