

SAFETY DATA SHEET 2022

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Product Name | : ShieldPrime CA |
| Other means of Identification | : None |
| Component | : Cure |
| Relevant identified uses of the substance or mixture and uses advised against | : No further relevant information available |
| Application of the Substance / the Mixture | : Lacquer |
| Manufacturer/Importer/Supplier/Distributor Information | : ShieldCrete [®] International |
| Company Name | : ShieldCrete [®] International Sdn Bhd |
| Address | : 66 Jalan Setiakasih 9 Bukit Damansara, Kuala Lumpur, Malaysia 50490 |
| Contact Numbers | : +66 928 639 833 +63 966 465 5362 |
| Email | : info@shieldcreteinternational.com |
| Website | : www.shieldcreteinternational.com |

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Label Elements

Labelling according to Regulation (EC) No 1272/2008:

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

Hazard Pictograms:

GHS05



GHS07



GHS09



Signal Word:

Danger

Hazard-determining Components of Labelling:

- Benzyl alcohol
- Fatty acids, tall-oil, reaction products with Bisphenol A, Epichlorohydrin, Glycidyl Toly Ether and Triethylenetetramine
- 3-Aminomethyl-3,5,5-Trimethylcyclohexylamine
- M-phenylenebis(methylamine)
- Phenol, Styrenated
- 2,4,6-Tris(dimethylaminomethyl)phenol
- 3-Aminopropyltriethoxysilane

Hazard Statements:

- Harmful if swallowed or if inhaled.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

- Do not breathe dusts or mists.
- Wear protective gloves/protective clothing/eye protection/face protection.

If on Skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Dispose of contents/container in accordance with regional/national regulations.












Other Hazards

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: COMPOSITES / INFORMATION ON INGREDIENTS**Mixtures**

Description: Mixture: consisting of the following components.

| DANGEROUS COMPONENTS | | |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 100-51-6 EINECS: 202-859-9 Reg.nr.: 01-2119492630-38 | Benzyl Alcohol ☠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319 | 25-50% |
| CAS: 186321-96-0 EC number: 606-078-8 Reg.nr.: 01-2119983521-35 | Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine ☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317 | 25-50% |
| CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32 | 3-Aminomethyl-3,5,5-trimethylcyclohexylamine ☠ Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; ☠ Acute Tox. 4, H312; Skin Sens. 1A, H317; Aquatic Chronic 3, H412 | 10-25% |
| CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50 | M-phenylenebis(methylamine) ☠ Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; ☠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 2.5-10% |

| | | |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 61788-44-1 EINECS: 262-975-0 Reg.nr.: 01-2119980970-27 | Phenol, Styrenated | |
| |  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317 | 2.5-10% |
| CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27 | 2,4,6-Tris(dimethylaminomethyl)phenol | |
| |  Skin Corr. 1B, H314; Eye Dam. 1, H318;  Acute Tox. 4, H302; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 | 2.5-10% |
| CAS: 2579-20-6 EINECS: 219-941-5 Reg.nr.: 01-2119543741-41 | 1,3-Cyclohexanedimethanamine | |
| |  Skin Corr. 1A, H314; Acute Tox. 4, H302;  Acute Tox. 4, H312; Aquatic Chronic 3, H412 | 2.5-10% |
| CAS: 919-30-2 EINECS: 213-048-4 Reg.nr.: 01-2119480479-24 | 3-Aminopropyltriethoxysilane | |
| |  Skin Corr. 1B, H314;  Acute Tox. 4, H302; Skin Sens. 1B, H317 | ≤1% |
| CAS: 69-72-7 EINECS: 200-712-3 Reg.nr.: 01-2119486984-17 | Salicylic Acid | |
| |  Repr. 2, H361d;  Eye Dam. 1, H318;  Acute Tox. 4, H302 | ≤0.5% |

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

SECTION 4: FIRST AID MEASURES

| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Information: | Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident. |
| Inhalation: | Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. |
| Skin Contact: | Immediately wash with water and soap and rinse thoroughly. |
| Eye Contact: | Rinse opened eye for several minutes under running water. Then consult a doctor. |
| Ingestion: | Call for a doctor immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately. |

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable extinguishing agents: CO₂, powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special Hazards arising from the Substance or Mixture:

During heating or in case of fire poisonous gases are produced.

Advice for Firefighters:

Protective equipment: Mount respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

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.

Methods and Material for Containment and Cleaning up:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.

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**Precautions for Safe Handling:**

- Ensure good ventilation/exhaustion at the workplace.
- Avoid inhalation of spray application of the product.
- To remove contaminated clothing and protective equipment before entering eating areas.
- To wash hands after use.
- Not to eat, drink and smoke in work areas.

Information about fire - and explosion protection: Keep respiratory protective device available.

Conditions for Safe Storage, including any incompatibilities:

- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s):

- No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

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 | | |
|------------------------------|----------------------------------|-----------------------------------------|
| CAS: 100-51-6 Benzyl alcohol | | |
| Oral | DNEL Long term systemic effects | 4 mg/kg/day (consumers) |
| | DNEL Short term systemic effects | 10-40 mg/kg/day (consumers) |
| Dermal | DNEL Long term systemic effects | 4 mg/kg bw/24h (consumers) |
| | | 5.5-24.5 mg/kg bw/24h (workers) |
| | DNEL Short term systemic effects | 13.5-43.5 mg/kg/ bw/24h (consumers) |
| Inhalative | | 32-62 mg/kg/ bw/24h (workers) |
| | DNEL Long term systemic effects | 5.4 mg/m ³ (consumers) |
| | | 22 mg/m ³ (workers) |
| | DNEL Short term systemic effects | 13.5-43.5 mg/m ³ (consumers) |
| | | 110 mg/m ³ (workers) |

| CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol | | |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| Inhalative | DNEL Long term systemic effects | 0.31 mg/m ³ (workers) |
| PNECs | | |
| CAS: 100-51-6 Benzyl alcohol | | |
| PNEC Water | 14-16 mg/l (fresh water) 14.9-15.1 mg/l (marine water) 12.7-17.3 mg/l (intermittent release) | |
| PNEC Sediment | 14.47-15.53 mg/kg (marine sediment) 9.73-20.27 mg/kg (fresh water sediment) | |
| PNEC STP | 24-54 mg/l (sewage treatment plant) | |
| PNEC Soil | 14.54-15.46 mg/kg (soil) | |
| CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol | | |
| PNEC Water | 0.084 mg/l (fresh water) 0.0084 mg/l (marine water) 0.84 mg/l (intermittent release) | |
| PNEC STP | 0.2 mg/l (sewage treatment plant) | |

Additional information: The lists valid during the making were used as basis.

Exposure Controls

Personal Protective Equipment:

General Protective and 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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

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.

Protection of Hands:



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. 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 cannot 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.

Eye Protection:



Tightly sealed goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | |
|------------------------------------------------|----------------------------------------------|
| Appearance | Fluid |
| Color | According to product specification |
| Odor | Characteristic |
| Odor Threshold | Not determined |
| pH Value | Not determined |
| Melting Point / Freezing Point | Undetermined |
| Initial Boiling Point and Boiling Range | 156 °C |
| Flash Point | >63 °C |
| Flammability (solid, gas) | Not applicable |
| Decomposition Temp | Not determined |
| Auto-ignition Temp | Product is not self-igniting |
| Explosive Properties | Product does not present an explosion hazard |
| Explosion Limits (Lower) | 1.3 Vol % |
| Explosion Limits (Upper) | 13 Vol % |
| Vapor Pressure at 20°C | 0.1 hPa |
| Density at 20°C | 1.037 g/cm ³ |
| Relative Density | Not determined |
| Vapour Density | Not determined |
| Evaporation Rate | Not determined |
| Solubility in / Miscibility with Water | Not miscible or difficult to mix |
| Partition Coefficient: N-octanol/Water | Not determined |
| Solids Content (w/w) | 88.0 % |

Other information: The provisions of directive 2004/42/CE on VOC apply to this product. Refer to the product label and /or technical data sheet for further information.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical Stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of Hazardous Reactions: No dangerous reactions known.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products: No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity: Harmful if swallowed or if inhaled.

| LD/LC50 Values Relevant for Classification | | |
|--------------------------------------------------------------------|-----------|-------------------------------|
| CAS: 100-51-6 Benzyl alcohol | | |
| Oral | LD50 | 500 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | |
| Oral | LD50 | 1,030 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| CAS: 1477-55-0 m-phenylenebis(methylamine) | | |
| Oral | LD50 | 980 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| CAS: 61788-44-1 phenol, styrenated | | |
| Oral | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol | | |
| Oral | LD50 | 1,200 mg/kg (rat) |
| Dermal | LD50 | >971 mg/kg (rabbit) |
| CAS: 919-30-2 3-aminopropyltriethoxysilane | | |
| Oral | LD50 | 1,490 mg/kg (rabbit) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/6 h | >144 mg/l (rat) |
| | LC50/96 h | >934 mg/l (brachydanio rerio) |

Primary Irritant Effect:

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: May cause an allergic skin reaction.

CMR Effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction)

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.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

| Aquatic Toxicity | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| CAS: 100-51-6 Benzyl alcohol | |
| EC50/24 h | 390 mg/l (bacterium) |
| EC50/48 h | 230 mg/l (daphnia magna) |
| EC50/72 h | 700 mg/l (algae) |
| LC50/96 h | 460 mg/l (fish) |
| CAS: 186321-96-0 fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | |
| EC50/3 h | 157.6 mg/l (bacterium) |
| EC50/48 h | 0.705 mg/l (daphnia magna) |
| EC50r/72 h | h 0.186 mg/l (selenastrum capricornutum (algae)) |

| | |
|--------------------------------------------------------------------|----------------------------------------------------|
| LC50/96 h | h 1.806 mg/l (oncorhynchus mykiss (rainbow trout)) |
| CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine | |
| EC50/48 h | 23 mg/l (daphnia magna) |
| EC50/72 h | >50 mg/l (algae) |
| | 37 mg/l (desmodesmus suspicatus) |
| LC50/96 h | 110 mg/l (fish) |
| CAS: 1477-55-0 m-phenylenebis(methylamine) | |
| EC50/48 h | 15.2 mg/l (daphnia magna) |
| EC50/72 h | 20.3 mg/l (algae) |
| | 12 mg/l (scenedesmus subspicatus (algae)) |
| LC50/96 h | 87.6 mg/l (fish) |
| | 75 mg/l (leuciscus idus) |
| CAS: 61788-44-1 phenol, styrenated | |
| EC50/48 h | 1-10 mg/l (daphnia magna) |
| EC50/72 h | 3.14 mg/l (algae) |
| LC50/96 h | 14.8 mg/l (fish) |
| CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol | |
| EC50/48 h | 24 mg/l (daphnia magna) |
| EC50r/72 h | 84 mg/l (desmodesmus suspicatus) |
| EC50/72 h | 84 mg/l (algae) |
| LC50/96 h | 40 mg/l (brachydanio rerio) |
| | 718 mg/l (daphnia magna) |
| CAS: 2579-20-6 1,3-Cyclohexanedimethanamine | |
| EC50/48 h | 29 mg/l (daphnia magna) |
| EC50/72 h | 276 mg/l (pseudokirchneriella subcapitata (algae)) |
| LC50/96 h | >100 mg/l (leuciscus idus) |
| CAS: 919-30-2 3-aminopropyltriethoxysilane | |
| EC50/48 h | 331 mg/l (daphnia magna) |
| EC50/72 h | >1,000 mg/l (scenedesmus subspicatus (algae)) |
| EC10/5,75 h | 13 mg/l (pseudomonas putida) |
| CAS: 69-72-7 salicylic acid | |
| EC50/48 h | 90 mg/l (leuciscus idus) |
| LC50/24 h | 105-230 mg/l (daphnia magna) |
| EC50/3 h | >3,200 mg/l (activated sludge) |
| LC50/96 h | >150 mg/l (emerald shiner (notropis atherinoides)) |

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Ecotoxicological Effects: Remark: Toxic for fish

Additional Ecological Information

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
 Do not allow product to reach ground water, water course or sewage system.
 Must not reach sewage water or drainage ditch undiluted or unnaturalized.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Very toxic for aquatic organisms.

Results of PBT and vPvB Assessment: PBT: Not applicable.
 vPvB: Not applicable.

Other Adverse Effects: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product

Recommendation: Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
The information given is based on Directive (EU) 2008/98.

European Waste Catalogue: This product is considered hazardous waste as defined by EU Directive 2008/98/EC.

European Waste Catalogue: Recommended identification code 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances.

Uncleaned Packaging

Recommendation: Disposal must be made according to official regulations.
The package should be properly drained.

SECTION 14: TRANSPORT INFORMATION

UN Number

ADR, IMDG, IATA UN3066

UN Proper Shipping Name

ADR 3066 PAINT, ENVIRONMENTALLY HAZARDOUS

IMDG PAINT (fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine, phenol, styrenated), MARINE POLLUTANT

IATA PAINT

Transport Hazard Class(es)

ADR, IMDG



Class 8 Corrosive substances.

Label 8

IATA



Class 8 Corrosive substances.

Label 8

Packing Group

ADR, IMDG, IATA II

Environmental Hazards

Product contains environmentally hazardous substances: fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Marine Pollutant: Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

Special Precautions for User

Warning: Corrosive substances.
Danger Code (Kemler): 90
EMS Number: F-A, S-B
Stowage Category: B
Stowage Code: SW2 Clear of living quarters.

Transport in Bulk according to ANNEX II of Marpol and the IBC Code

Not Applicable

Transport/Additional Information:
ADR

| | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Limited Quantities (LQ) | 1L |
| Excepted Quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| Transport Category | 2 |
| Tunnel Restriction | Code E |

IMDG

| | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Limited Quantities (LQ) | 1L |
| Excepted Quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| UN "Model Regulation" | UN 3066 PAINT, 8, II, ENVIRONMENTALLY HAZARDOUS |

SECTION 15: REGULATORY INFORMATION
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

E2 Hazardous to the Aquatic Environment

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

100 t

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

200 t

List of Substances Subject to Authorization (ANNEX XIV)

None of the ingredients is listed.

Regulation (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

Regulation (EU) No 649/2012

CAS: 69-72-7 Salicylic Acid

Waterhazard Class

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

Other Regulations, Limitations and Prohibitive Regulations
Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

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.

Relevant Phrases

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H361d Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- Acute toxicity - oral
- Acute toxicity - inhalation
- Skin corrosion/irritation
- Serious eye damage/eye irritation
- Skin sensitization
- Hazardous to the aquatic environment – short term (acute) aquatic hazard
- Hazardous to the aquatic environment – long term (chronic) aquatic hazard

Abbreviations and Acronyms:

ADR: Accord européen sur le transport 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

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

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

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