# Safety Data Sheet
**acc. to OSHA HCS**

Printing date 03/03/2016 Reviewed on 03/01/2016

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## 1: Identification

· **Product identifier**

· ***Trade name:*** **ALP IFCC SL Reagent 1**

· *Article number:* PISL-5XXX
· *Synonyms* ALP IFCC SL R1
· ***Relevant identified uses of the substance or mixture and uses advised against***
· *Application of the substance / the mixture*
Reagent for IN VITRO diagnostic
Product included in kit(s) :
- Kit composed of two reagents : PISL-0210

· **Details of the supplier of the safety data sheet**
· ***Manufacturer/Supplier:***
ELITech Clinical Systems SAS
Zone Industrielle
61500 Sées • France
Tel : +33 (0)2 33 81 21 00
Fax : +33 (0)2 33 28 77 51
www.elitechgroup.com
MSDS.ECS-SAS@elitechgroup.com

· ***Information department:*** Product safety department
· ***Emergency telephone number:*** Contact your distributor or poison control center in your country.

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## 2: Hazard(s) identification

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


GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Label elements**
· ***Labelling according to Regulation (EC) No 1272/2008*** The product is classified and labeled according to the CLP regulation.
· *Hazard pictograms*


GHS07

· *Signal word* Warning
· *Hazard statements*
Causes skin irritation.
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.
· *Precautionary statements*
Wear protective gloves / eye protection / face protection.
Avoid release to the environment.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.

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## 3: Composition/information on ingredients

· **Chemical characterization: Mixtures**
· ***Description:***
Mixture of substances.
Aqueous solution.

| · ***Dangerous components:*** | | |
|---|---|---|
| 124-68-5 | 2-amino-2-methylpropanol<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | 2.5-10% |
| 7446-20-0 | zinc sulphate heptahydrate<br>Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302 | < 0.1% |



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## 4: First-aid measures

· **Description of first aid measures**
· ***General information:***
Take off contaminated clothing and wash it before reuse.
Show this safety data sheet to the doctor in attendance.
· ***After inhalation:***
Supply fresh air.
Move out of dangerous area.
If required, provide artificial respiration.
If symptoms appear, seek medical advice.
· ***After skin contact:***
Take off contaminated clothing and wash before reuse.
IF ON SKIN: Wash with plenty of soap and water.
If symptoms appear, seek medical advice.
· ***After eye contact:***
Protect unharmed eye.
Remove contact lenses, if present and easy to do.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing:***
Never give anything by mouth to an unconscious person.
Rinse out mouth.
Seek advice from a doctor or a poison control center.
· ***Information for doctor:***
· *Most important symptoms and effects, both acute and delayed* Data not available.
· *Indication of any immediate medical attention and special treatment needed* Data not available.

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## 5: Fire-fighting measures

· **Extinguishing media**
· ***Suitable extinguishing agents:***
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
Dangerous decomposition products may be formed
Carbon oxides (COx)
Nitrogen oxides (NOx)
· **Advice for firefighters**
· ***Protective equipment:*** As in any fire, wear a respiratory protective device, and full protective gear.

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## 6: Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Take off contaminated clothing and wash before reuse.
Avoid physical contact with material.
Avoid formation of vapour / mist / spray.
Avoid breathing mist/vapours/spray.
· **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Clean the affected area carefully.
· **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.

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## 7: Handling and storage

· **Handling:**
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Take off contaminated clothing and wash before reuse.
Avoid physical contact with material.
Avoid formation of vapour / mist / spray.
Avoid breathing mist/vapours/spray.
Observe the warnings on the label.
· ***Information about protection against explosions and fires:*** No special measures required.

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· **Conditions for safe storage, including any incompatibilities**
· ***Storage:***
· *Requirements to be met by storerooms and receptacles:* Store in a cool location.
· *Information about storage in one common storage facility:* Not required.
· *Further information about storage conditions:*
Store receptacle in a well ventilated area.
Keep container tightly closed.
Protect the product from light. Avoid exposure to heat.
· *Recommended storage temperature:* 2-8 °C
· **Specific end use(s)** Data not available.

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## 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** Eyewash fountain and safety shower in the area of storage and use.

· **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 creation were used as basis.

· **Exposure controls**
· ***Personal protective equipment:***
· *General protective and hygienic measures:*
The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.
Take off contaminated clothing and wash before reuse.
Avoid physical contact with material.
Avoid formation of vapour / mist / spray.
Avoid breathing mist/vapours/spray.
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
· *Breathing equipment:*
Under normal conditions, the use of these products should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
· *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
Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
· *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.
· *Eye protection:*


Wear face shield/eye protection.

Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
· *Body protection:* Protective work clothing

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## 9: Physical and chemical properties

| | |
|---|---|
| · **Information on basic physical and chemical properties** | |
| · ***General Information*** | |
| · *Appearance:* | |
| *Form:* | Liquid |
| *Color:* | Colorless |
| · *Odor:* | Odorless |
| · *Odor threshold:* | Data not available. |
| · ***pH-value at 20 °C (68 °F):*** | 10,5 |
| · ***Change in condition*** | |
| *Melting point/Melting range:* | Not applicable. |
| *Boiling point/Boiling range:* | Data not available. |
| *Solidification point:* | Data not available. |
| · ***Flash point:*** | Data not available. |

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| | |
|---|---|
| · ***Flammability (solid, gaseous):*** | Not applicable |
| · ***Ignition temperature:*** | Data not available. |
| · *Decomposition temperature:* | Data not available. |
| · ***Auto igniting:*** | Product is not selfigniting. |
| · ***Danger of explosion:*** | Product does not present an explosion hazard. |
| · ***Vapor pressure:*** | Data not available. |
| · ***Density:*** | |
| *Relative density at 20 °C (68 °F)* | 0.999 g/cm³ (8.337 lbs/gal) |
| *Vapor density* | Data not available. |
| *Evaporation rate* | Data not available. |
| · ***Solubility in / Miscibility with*** | |
| *Water:* | Miscible |
| · ***Partition coefficient (n-octanol/water):*** | Data not available. |
| · ***Viscosity:*** | |
| *Dynamic:* | Data not available. |
| · ***Solvent content:*** | |
| *Organic solvents:* | 2.5-10,0 % |
| *VOC content:* | 2.5-10,0 % |
| · **Other information** | No further relevant information available. |

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## 10: Stability and reactivity

· **Reactivity** See § Possibility of hazardous reactions.
· **Chemical stability** Stable under recommended storage conditions.
· ***Thermal decomposition / conditions to be avoided:*** Data not available.
· **Possibility of hazardous reactions** No dangerous reactions if used according to specifications.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:**
Strong oxidizing agents.
Metals.
Acids.
· **Hazardous decomposition products:**
Dangerous decomposition products may be formed
Carbon oxides (COx)
Nitrogen oxides (NOx)
· **Additional information:** Stable at the recommended storage temperature and if protected from light. Avoid exposure to heat.

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## 11: Toxicological information

· **Information on toxicological effects**
· ***Acute toxicity:***
· *LD/LC50 values that are relevant for classification:*
ATE (Acute Toxicity Estimates) : data not available
Information on components:

| **ATE (Acute Toxicity Estimates)** | | |
|---|---|---|
| Oral | LD50 | 62069 mg/kg (rabbit) |

| **124-68-5 2-amino-2-methylpropanol** | | |
|---|---|---|
| Oral | LD50 | 2900 mg/kg (rat) |
| Dermal | LD50 | > 2000 mg/kg (rabbit) |
| **7446-20-0 zinc sulphate heptahydrate** | | |
| Oral | LD50 | 1260 mg/kg (rat) |

· *Primary irritant effect:*
· *on the skin:*
Causes skin irritation.
· *on the eye:*
Causes serious eye irritation.
· *Sensitization:* Data not available.
· ***Additional toxicological information:***
· *Carcinogenic categories*
· *IARC (International Agency for Research on Cancer)* Available information lists no component.
· *NTP (National Toxicology Program)* Available information lists no component.



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## 12: Ecological information

· **Toxicity**
· ***Aquatic toxicity:***
Harmful to aquatic life with long lasting effects.
Information on components:

| **124-68-5 2-amino-2-methylpropanol** | |
|---|---|
| EC50/48h | 193 mg/l (Daphnia) |
| LC50/96h | 190 mg/l (fish) |
| EC50/72h | 520 mg/l (Algae) |
| **7446-20-0 zinc sulphate heptahydrate** | |
| LC50/96h | 0.1 mg/l (Onchorhyncus mykiss) |
| IC50/5d | 0.52 mg/l (Scenedesmus quadricauda) |

· **Persistence and degradability** Data not available.
· **Behavior in environmental systems:**
· ***Bioaccumulative potential*** Data not available.
· ***Mobility in soil*** Data not available.
· **Additional ecological information:**
· ***General notes:***
Water hazard class 1 (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.
Disposal procedures have to be respected, see Section 13.
· **Other adverse effects** No further relevant information available.

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## 13: Disposal considerations

· **Waste treatment methods**
· ***Recommendation:*** Disposal must be made according to official regulations.

· **Uncleaned packagings:**
· ***Recommendation:*** Disposal must be made according to official regulations.
· ***Primary packaging:*** Plastic vial (composed of polyethylene high density)

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## 14: Transport information

| | |
|---|---|
| · **UN-Number**<br>· ***DOT, ADR, ADN, IMDG, IATA*** | Not applicable.<br>- |
| · **UN proper shipping name**<br>· ***DOT, ADR, ADN, IMDG, IATA*** | <br>- |
| · **Transport hazard class(es)**<br>· ***DOT, ADR, ADN, IMDG, IATA***<br>· *Class* | <br><br>- |
| · **Packing group**<br>· ***DOT, ADR, IMDG, IATA*** | <br>- |
| · **Environmental hazards:** | Not applicable. |
| · **Special precautions for user** | Not applicable. |
| · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |
| · **UN "Model Regulation":** | - |

## 15: Regulatory information

· ***SARA***
· *Section 302/304 (40CFR355.30 / 40CFR355.40):* Available information lists none.
· *Section 313 (Specific toxic chemical listings):* Not regulated.
· ***TSCA (Toxic Substances Control Act):*** This product is regulated by the Food and Drug Administration; it is exempt from requirements of TSCA.
· ***Proposition 65***
· *Chemicals known to cause cancer:* Available information lists none.
· *Chemicals known to cause reproductive toxicity for females:* Available information lists none.
· *Chemicals known to cause reproductive toxicity for males:* Available information lists none.
· *Chemicals known to cause developmental toxicity:* Available information lists none.

· ***Carcinogenic categories***
· *EPA (Environmental Protection Agency)* Available information lists none.
· *TLV (Threshold Limit Value established by ACGIH)* Available information lists none.
· *NIOSH-Ca (National Institute for Occupational Safety and Health)* Available information lists none.

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· *OSHA-Ca (Occupational Safety & Health Administration)* Available information lists none.
· **U. S. State Regulations:**
· ***PA-RTK*** Available information lists none.

| · ***NJ-RTK*** | |
|---|---|
| 124-68-5 | 2-amino-2-methylpropanol |

| · ***MA-RTK*** | |
|---|---|
| 124-68-5 | 2-amino-2-methylpropanol |

· ***RI-RTK*** Available information lists none.
· **US Federal Regulation** This mixture is a component of an FDA-regulated IN VITRO diagnostic medical device.

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

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## 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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing MSDS:** Product safety department
· **Contact:** Product safety department
· ***Abbreviations and acronyms:***
SVHC : Substances of Very High Concern
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
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOEC : No Observed Effect Concentration
EC50: Effective concentration, 50 percent
IC50 : Inhibitory concentration, 50 percent.
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **** Data compared to the previous version altered.***

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## 1: Identification

· **Product identifier**

· ***Trade name:*** **ALP IFCC SL Reagent 2**

· *Article number:* PISL-6XXX
· *Synonyms* ALP IFCC SL R2
· ***Relevant identified uses of the substance or mixture and uses advised against***
· *Application of the substance / the mixture*
Reagent for IN VITRO diagnostic
Product included in kit(s) :
- Kit composed of two reagents : PISL-0210

· **Details of the supplier of the safety data sheet**
· ***Manufacturer/Supplier:***
ELITech Clinical Systems SAS
Zone Industrielle
61500 Sées • France
Tel : +33 (0)2 33 81 21 00
Fax : +33 (0)2 33 28 77 51
www.elitechgroup.com
MSDS.ECS-SAS@elitechgroup.com

· ***Information department:*** Product safety department
· ***Emergency telephone number:*** Contact your distributor or poison control center in your country.

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## 2: Hazard(s) identification

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


GHS08

Muta. 2 H341 Suspected of causing genetic defects.


GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

· **Label elements**
· ***Labelling according to Regulation (EC) No 1272/2008*** The product is classified and labeled according to the CLP regulation.
· *Hazard pictograms*


GHS07 GHS08

· *Signal word* Warning

· *Hazard-determining components of labeling:*
phenol
· *Hazard statements*
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing genetic defects.
· *Precautionary statements*
Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection/face protection.
IF exposed or concerned: Get medical advice/attention.
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 soap and water.
Take off contaminated clothing and wash it before reuse.

* 

## 3: Composition/information on ingredients

· **Chemical characterization: Mixtures**
· ***Description:***
Mixture of substances.
Aqueous solution.

· ***Dangerous components:***

| | | |
|---|---|---|
| 108-95-2 | phenol<br>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT SE 2, H371; STOT RE 2, H373; Skin Corr. 1B, H314 | ≤ 2,5% |

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| | | |
|---|---|---|
| 67-56-1 | methanol<br>Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Repr. 2, H361; STOT SE 1, H370 | < 0,5% |

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## 4: First-aid measures

· **Description of first aid measures**
· ***General information:***
Take off contaminated clothing and wash it before reuse.
Show this safety data sheet to the doctor in attendance.
· ***After inhalation:***
Supply fresh air.
Move out of dangerous area.
If required, provide artificial respiration.
If symptoms appear, seek medical advice.
Seek medical advice.
· ***After skin contact:***
Take off contaminated clothing and wash before reuse.
IF ON SKIN: Wash with plenty of soap and water.
Seek medical advice.
· ***After eye contact:***
Protect unharmed eye.
Remove contact lenses, if present and easy to do.
Rinse opened eye for several minutes under running water.
Get medical advice/attention.
· ***After swallowing:***
Never give anything by mouth to an unconscious person.
Rinse out mouth.
Get medical advice/attention.
· ***Information for doctor:***
· *Most important symptoms and effects, both acute and delayed* Data not available.
· *Indication of any immediate medical attention and special treatment needed* Data not available.

* 
## 5: Fire-fighting measures

· **Extinguishing media**
· ***Suitable extinguishing agents:***
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
Dangerous decomposition products may be formed
Nitrogen oxides (NOx)
Carbon oxides (COx)
Phosphorus oxides (POx)
· **Advice for firefighters**
· ***Protective equipment:*** As in any fire, wear a respiratory protective device, and full protective gear.

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## 6: Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Take off contaminated clothing and wash before reuse.
Avoid physical contact with material.
Do not breathe mist/vapours/spray.
Avoid formation of vapour / mist / spray.
· **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Clean the affected area carefully.
· **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.

* 
## 7: Handling and storage

· **Handling:**
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

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Do not eat, drink or smoke when using this product.
Take off contaminated clothing and wash before reuse.
Avoid physical contact with material.
Do not breathe mist/vapours/spray.
Avoid formation of vapour / mist / spray.
Observe the warnings on the label.

· ***Information about protection against explosions and fires:*** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· ***Storage:***
· *Requirements to be met by storerooms and receptacles:* Store in a cool location.
· *Information about storage in one common storage facility:* Not required.
· *Further information about storage conditions:*
Keep container tightly closed.
Protect the product from light. Avoid exposure to heat.
· *Recommended storage temperature:* 2-8 °C
· **Specific end use(s)** Data not available.

* 

## 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** Eyewash fountain and safety shower in the area of storage and use.

· **Control parameters**

| · ***Components with limit values that require monitoring at the workplace:*** | |
|---|---|
| **108-95-2 phenol** | |
| PEL (USA) | Long-term value: 19 mg/m³, 5 ppm<br>Skin |
| REL (USA) | Long-term value: 19 mg/m³, 5 ppm<br>Ceiling limit value: 60* mg/m³, 15.6* ppm<br>*15-min; Skin |
| TLV (USA) | Long-term value: 19 mg/m³, 5 ppm<br>Skin; BEI |
| **67-56-1 methanol** | |
| PEL (USA) | Long-term value: 260 mg/m³, 200 ppm |
| REL (USA) | Short-term value: 325 mg/m³, 250 ppm<br>Long-term value: 260 mg/m³, 200 ppm<br>Skin |
| TLV (USA) | Short-term value: 328 mg/m³, 250 ppm<br>Long-term value: 262 mg/m³, 200 ppm<br>Skin; BEI |

| · *Ingredients with biological limit values:* | |
|---|---|
| **108-95-2 phenol** | |
| BEI (USA) | 250 mg/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: Phenol with hydrolysis (background, nonspecific) |
| **67-56-1 methanol** | |
| BEI (USA) | 15 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Methanol (background, nonspecific) |

· *Additional information:* The lists that were valid during the creation were used as basis.

· **Exposure controls**
· ***Personal protective equipment:***
· *General protective and hygienic measures:*
The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.
Take off contaminated clothing and wash before reuse.
Store protective clothing separately.
Do not eat, drink or smoke when using this product.
Avoid physical contact with material.
Do not breathe mist/vapours/spray.
Avoid formation of vapour / mist / spray.
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
· *Breathing equipment:*
Use suitable respiratory protective device when mist/vapour/spray is formed.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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· *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
Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

· *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.

· *Eye protection:*

Wear face shield/eye protection.

Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

· *Body protection:* Protective work clothing

* 

## 9: Physical and chemical properties

| | |
|---|---|
| · **Information on basic physical and chemical properties** | |
| · ***General Information*** | |
| · *Appearance:* | |
| *Form:* | Liquid |
| *Color:* | Slightly yellow |
| · *Odor:* | Odorless |
| · *Odor threshold:* | Data not available. |
| · ***pH-value at 20 °C (68 °F):*** | 9,4 |
| · ***Change in condition*** | |
| *Melting point/Melting range:* | Not applicable. |
| *Boiling point/Boiling range:* | Data not available. |
| *Solidification point:* | Data not available. |
| · ***Flash point:*** | Data not available. |
| · ***Flammability (solid, gaseous):*** | Not applicable |
| · ***Ignition temperature:*** | Data not available. |
| · *Decomposition temperature:* | Data not available. |
| · ***Auto igniting:*** | Product is not selfigniting. |
| · ***Danger of explosion:*** | Product does not present an explosion hazard. |
| · ***Vapor pressure:*** | Data not available. |
| · ***Density:*** | |
| *Relative density at 20 °C (68 °F)* | 0.999 g/cm³ (8.337 lbs/gal) |
| *Vapor density* | Data not available. |
| *Evaporation rate* | Data not available. |
| · ***Solubility in / Miscibility with*** | |
| *Water:* | Miscible |
| · ***Partition coefficient (n-octanol/water):*** | Data not available. |
| · ***Viscosity:*** | |
| *Dynamic:* | Data not available. |
| · ***Solvent content:*** | |
| *Organic solvents:* | ≤ 2,5 % |
| *VOC content:* | ≤ 2,5 % |
| · **Other information** | No further relevant information available. |

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## 10: Stability and reactivity

· **Reactivity** See § Possibility of hazardous reactions.
· **Chemical stability** Stable under recommended storage conditions.
· ***Thermal decomposition / conditions to be avoided:*** Data not available.
· **Possibility of hazardous reactions**
Sodium azide, contains in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.

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· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** Sodium azide (26628-22-8) : incompatible with acids, and some metals; forms explosion-sensitive compounds.
· **Hazardous decomposition products:**
Dangerous decomposition products may be formed
Nitrogen oxides (NOx)
Carbon oxides (COx)
Phosphorus oxides (POx)
· **Additional information:** Stable at the recommended storage temperature and if protected from light. Avoid exposure to heat.

* 
## 11: Toxicological information

· **Information on toxicological effects**
· ***Acute toxicity:***
· *LD/LC50 values that are relevant for classification:*
ATE (Acute Toxicity Estimates) : data not available
Information on components:

| | | |
|---|---|---|
| **108-95-2 phenol** | | |
| Oral | LD50 | 317 mg/kg (rat) |
| Dermal | LD50 | 630 mg/kg (rabbit) |
| Inhalative | LC50/8h | 900 mg/m3 (rat) |
| **67-56-1 methanol** | | |
| Oral | LD50 | 1187 mg/kg (rat) |
| | LDL0 | 143 mg/kg (human) |
| Dermal | LD50 | 17100 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 128.2 mg/l (rat) |
| | LC50/6h | 87.6 mg/l (rat) |
| **26628-22-8 sodium azide** | | |
| Oral | LD50 | 27 mg/kg (mouse) |
| Dermal | LD50 | 20 mg/kg (rabbit) |
| Inhalative | LC50 | 37 mg/m3 (rat) |

· *Primary irritant effect:*
· *on the skin:*
Causes skin irritation.
· *on the eye:*
Causes serious eye irritation.
· *Sensitization:* Data not available.
· ***Additional toxicological information:***
Ingestion of large amount of sodium azide may cause nausea, vomiting and in certain circumstances respiratory difficulties, high pulse rate and/or hypersensitivity.
· *Carcinogenic categories*

| · *IARC (International Agency for Research on Cancer)* | | |
|---|---|---|
| 108-95-2 | phenol | 3 |

· *NTP (National Toxicology Program)* None of the ingredient is in reportable quantity.

* 
## 12: Ecological information

· **Toxicity**
· ***Aquatic toxicity:***
Information on components:

| | |
|---|---|
| **108-95-2 phenol** | |
| EC50/48h | 56 mg/l (Daphnia) |
| LC50/96h | 36.1-68.8 mg/l (Carassius auratus) |
| LC50/48h | 14.0-25.0 mg/l (Leuciscus idus) |
| EC50/24h | 12.0 mg/l (Daphnia) |
| EC50/96h | 370 mg/l (Chlorella vulgaris) |
| EC100/24h | 100 mg/l (Daphnia) |
| **67-56-1 methanol** | |
| EC50/48h | >10000 mg/l (Daphnia) |
| LC50/96h | 15400 mg/l (Lepomis macrochirus) |
| EC50/96h | 22000 mg/l (Scenedesmus capricornutum)<br>Growth inhibition |
| NOEC - 200h | 7900 mg/l (Oryzias latipes) |
| **26628-22-8 sodium azide** | |
| EC50/48h | 4.2 mg/l (Daphnia) |
| LC50/96h | 0.68 mg/l (Lepomis macrochirus) |

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· **Persistence and degradability** Data not available.
· **Behavior in environmental systems:**
· ***Bioaccumulative potential*** Data not available.
· ***Mobility in soil*** Data not available.
· **Additional ecological information:**

| · *CSB-value:* | |
|---|---|
| **67-56-1 methanol** | |
| Chemical Oxygen Demand (COD) | 1420 mg/g (-) |

· ***General notes:***
At present there are no ecotoxicological assessments.
Water hazard class 1 (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.
Disposal procedures have to be respected, see Section 13.
· **Other adverse effects** No further relevant information available.

* 
## 13: Disposal considerations

· **Waste treatment methods**
· ***Recommendation:*** Disposal must be made according to official regulations.

· **Uncleaned packagings:**
· ***Recommendation:*** Disposal must be made according to official regulations.
· ***Recommended cleansing agent:***
Sodium azide, contained in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.
· ***Primary packaging:*** Plastic vial (composed of polyethylene high density)

* 
## 14: Transport information

| | |
|---|---|
| · **UN-Number**<br>· ***DOT, ADR, ADN, IMDG, IATA*** | Not applicable.<br>- |
| · **UN proper shipping name**<br>· ***DOT, ADR, ADN, IMDG, IATA*** | <br>- |
| · **Transport hazard class(es)**<br>· ***DOT, ADR, ADN, IMDG, IATA***<br>· *Class* | <br><br>- |
| · **Packing group**<br>· ***DOT, ADR, IMDG, IATA*** | <br>- |
| · **Environmental hazards:** | Not applicable. |
| · **Special precautions for user** | Not applicable. |
| · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |
| · **UN "Model Regulation":** | - |

* 
## 15: Regulatory information

· ***SARA***

| · *Section 302/304 (40CFR355.30 / 40CFR355.40):* | |
|---|---|
| 108-95-2 | phenol |
| 26628-22-8 | sodium azide |

· *Section 313 (Specific toxic chemical listings):* Not regulated.
· ***TSCA (Toxic Substances Control Act):*** This product is regulated by the Food and Drug Administration; it is exempt from requirements of TSCA.
· ***Proposition 65***
· *Chemicals known to cause cancer:* Available information lists none.
· *Chemicals known to cause reproductive toxicity for females:* Available information lists none.
· *Chemicals known to cause reproductive toxicity for males:* Available information lists none.

| · *Chemicals known to cause developmental toxicity:* | |
|---|---|
| 67-56-1 | methanol |

· ***Carcinogenic categories***

| · *EPA (Environmental Protection Agency)* | | |
|---|---|---|
| 108-95-2 | phenol | D, I |

| · *TLV (Threshold Limit Value established by ACGIH)* | | |
|---|---|---|
| 108-95-2 | phenol | A4 |

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| | | |
|---|---|---|
| 26628-22-8 | sodium azide | A4 |

· *NIOSH-Ca (National Institute for Occupational Safety and Health)* Available information lists none.
· *OSHA-Ca (Occupational Safety & Health Administration)* Available information lists none.
· **U. S. State Regulations:**

| · ***PA-RTK*** | |
|---|---|
| 108-95-2 | phenol |
| 67-56-1 | methanol |
| 26628-22-8 | sodium azide |

| · ***NJ-RTK*** | |
|---|---|
| 108-95-2 | phenol |
| 67-56-1 | methanol |
| 26628-22-8 | sodium azide |

| · ***MA-RTK*** | |
|---|---|
| 108-95-2 | phenol |
| 67-56-1 | methanol |
| 26628-22-8 | sodium azide |

| · ***RI-RTK*** | |
|---|---|
| 108-95-2 | phenol |
| 67-56-1 | methanol |
| 26628-22-8 | sodium azide |

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

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## 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 vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H341 Suspected of causing genetic defects.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing MSDS:** Product safety department
· **Contact:** Product safety department
· ***Abbreviations and acronyms:***
SVHC : Substances of Very High Concern
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
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOEC : No Observed Effect Concentration
EC50: Effective concentration, 50 percent
IC50 : Inhibitory concentration, 50 percent.
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1
STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

· **** Data compared to the previous version altered.***