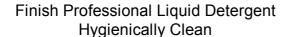
# **SAFETY DATA SHEET**





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

1.1 Product identifier

Product name : Finish Professional Liquid Detergent

Hygienically Clean

**SDS** # : D8373947 v2.0 **Formulation** # : FF3132855 v1.0

Product description : Washing and cleaning products

Product type : Liquid.

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

**Identified uses** 

Dishwashing detergents.

# 1.3 Details of the supplier of the safety data sheet Supplier

To be filled by local business.

#### **Manufacturer**

SOLIMIX SA Montseny, 25 Pol. Ind, 08799 Sant Pere Molanta, Barcelona, Spain

for

Supplier of the Safety Data Sheet: To be filled by local business

**e-mail address of person** : To be filled by local business. **responsible for this SDS** 

#### **National contact**

To be filled by local business.

#### 1.4 Emergency telephone number

**National advisory body/Poison Center** 

**Telephone number** : To be filled by local business.

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## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Met. Corr. 1, H290 Skin Corr. 1, H314 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** 



Signal word Danger

**Hazard statements** May be corrosive to metals.

> Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

**Prevention** : Wear protective gloves/protective clothing/eye protection/face protection.

: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Response

Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON CENTER. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

: Store locked up. **Storage** 

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazardous ingredients** : Potassium hydroxide

> sodium hypochlorite Sodium hydroxide

Supplemental label elements

: Contains Potassium Hydroxide, Sodium Hydroxide, Sodium Hypochlorite

Warning! Do not use together with other products. May release dangerous gases

(chlorine).

Ingredient Declaration:

< 5 % Chlorine-based bleaching agents

< 5 % Phosphonates

< 5 % Polycarboxylates

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: None.

#### **Special packaging requirements**

Containers to be fitted with child-resistant

: Yes, applicable.

fastenings

Tactile warning of danger : Yes, applicable.

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## **SECTION 2: Hazards identification**

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Do not mix with household chemicals . May release dangerous gases (chlorine).

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
SODIUM SILICATE	REACH #: 01-2119652761-37 EC: 215-687-4 CAS: 1344-09-8	≤5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1]
SODIUM HYDROXIDE	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≤5	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
POTASSIUM HYDROXIDE	REACH #: 01-2119487136-33 EC: 215-181-3 CAS: 1310-58-3 Index: 019-002-00-8	≤5	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318	[1]
sodium hypochlorite	REACH #: 01-2119488154-34 EC: 231-668-3 CAS: 7681-52-9	≤3	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 EUH031	[1]
2-phosphonobutane- 1,2,4-tricarboxylic acid, potassium salt	EC: 299-311-4 CAS: 93858-78-7	≤3	Not classified.	[6]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

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## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

## **Over-exposure signs/symptoms**

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

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# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide phosphorus oxides halogenated compounds metal oxide/oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# **6.2 Environmental precautions**

: Avoid dispersal of spilled 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.

#### 6.3 Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

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## SECTION 6: Accidental release measures

6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 40°C (104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations

: Professional uses

Detergent for use in domestic automatic dishwashers

Industrial sector specific

solutions

: Not available.

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
SODIUM HYDROXIDE	EU OEL (Europe, 8/2007).
	STEL: 2 mg/m³ 15 minutes.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

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# **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Type	Exposure	Value	Population	Effects
POTASSIUM HYDROXIDE	DNEL	Long term	1 mg/m³	Workers	Local
		Inhalation	_		
	DNEL	Long term	1 mg/m³	Consumers	Local
SODIUM HYDROXIDE	DNEL	Inhalation Long term	1 mg/m³	Workers	Local
SODIOWITTBROXIDE	DIVLL	Inhalation	1 mg/m	WOIKEIS	Local
	DNEL	Long term	1 mg/m³	Consumers	Local
		Inhalation			
	DNEL	Short term Dermal	2 %	Workers	Local
	DNEL	Short term Dermal	2 %	Consumers	Local
sodium hypochlorite	DNEL	Short term	3.1 mg/m <sup>3</sup>	-	Systemic
		Inhalation			
	DNEL	Short term	3.1 mg/m <sup>3</sup>	-	Local
		Inhalation			
	DNEL	Long term	1.55 mg/m <sup>3</sup>	-	Systemic
		Inhalation			
	DNEL	Long term	0.26 mg/m <sup>3</sup>	-	Systemic
		Inhalation			l
	DNEL	Long term	1.55 mg/m <sup>3</sup>	-	Local
		Inhalation			l
	DNEL	Long term Dermal	0.5 mg/m <sup>3</sup>	-	Local

### **PNECs**

0.21 µg/l	Assessment Factors Assessment Factors
ı	0.21 μg/l 0.042 μg/l

#### 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

# Skin protection Hand protection

: EN 16523-1:2015

Tested for protection against chemical permeation.

Low chemical resistant or waterproof gloves. (EN 16523-1:2015 supersedes EN 374-3:2003)

EN 374-2:2003

Tested for protection against liquid penetration and micro-organisms.

EN 388:2003

Tested for protection against mechanical risks (abrasion, blade cut resistance, tear resistance and puncture resistance).

ISO 374-1:2016/Type A

Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals.

ISO 374-1:2016/Type B

Protective glove with permeation resistance of at least 30 minutes each for at least 3

test chemicals.

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# SECTION 8: Exposure controls/personal protection

ISO 374-1:2016/Type C

Protective glove with permeation resistance of at least 10 minutes for at least 1 test

chemical.

Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

**Body protection** Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Based on the hazard and potential for exposure, select a respirator that meets the **Respiratory protection** 

> appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment

will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Viscous liquid.]

Color : Yellowish.

Odor : Chlorinated hydrocarbon odour.

**Odor threshold** Not available.

pН : 12 to 12.9 [Conc. (% w/w): 1%] (14 pure product)

**Melting point/freezing point** : Not available.

Initial boiling point and boiling

range

: Not available.

Flash point Closed cup: >100°C

**Evaporation rate** : Not available. Flammability (solid, gas) Not available. **Upper/lower flammability or** 

explosive limits

Not available.

: Not available. Vapor pressure : Not available. Vapor density Relative density : 1.195 to 1.25 g/mL

Solubility(ies) : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

**Decomposition temperature** : Not available.

**Viscosity** Dynamic (room temperature): 100 mPa·s

**Explosive properties** : Not available. **Oxidizing properties** : Not available.

9.2 Other information

**Auto-ignition temperature** : Not available.

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## **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.

Conditions of instability Instability temperature : Keep away from heat and direct sunlight.

: 50°C (122°F)

10.3 Possibility of hazardous reactions

: Hazardous reactions or instability may occur under certain conditions of storage or use. Contact with acids liberates toxic gas.

10.4 Conditions to avoid

: Keep away from heat and direct sunlight.

10.5 Incompatible materials

: Extremely reactive or incompatible with the following materials: acids metals

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
POTASSIUM HYDROXIDE	LD50 Oral	Rat	273 mg/kg	-
sodium hypochlorite	LD50 Oral	Rat	1100 mg/kg	-

**Conclusion/Summary** 

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

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Potassium hydroxide sodium hypochlorite	500	N/A	N/A	N/A	N/A
	1100	N/A	N/A	N/A	N/A

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
SODIUM SILICATE	Eyes - Severe irritant	Rabbit	-	24 hours 10	-
	Skin - Severe irritant	Rabbit	-	milligrams 24 hours 500 milligrams	-
SODIUM HYDROXIDE	Eyes - Severe irritant	Monkey	-	24 hours 1 Percent	-
	Eyes - Mild irritant	Rabbit	-	400 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 2 Percent	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
POTASSIUM HYDROXIDE	Eyes - Moderate irritant	Rabbit	-	24 hours 1 milligrams	-
	Skin - Severe irritant	Guinea pig	-	24 hours 50 milligrams	-
	Skin - Severe irritant	Human	-	24 hours 50	-

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				milligrams	
	Skin - Severe irritant	Rabbit	-	24 hours 50	-
				milligrams	
sodium hypochlorite	Eyes - Mild irritant	Rabbit	-	1.31	-
				milligrams	
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-

**Conclusion/Summary** 

Skin: Based on Calculation method: Causes Severe Skin Burns (EU).Eyes: Based on Calculation method: Causes serious eye damage.Respiratory: Based on available data, the classification criteria are not met.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Not applicable.			

#### **Conclusion/Summary**

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

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Not applicable.			

## **Conclusion/Summary**

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

## **Carcinogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Not applicable.				

#### **Conclusion/Summary**

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

## **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Not applicable.						

#### **Conclusion/Summary**

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

## **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Not applicable.				

### Conclusion/Summary

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

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
SODIUM SILICATE	Category 3		Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Not applicable.			

## **Aspiration hazard**

Product/ingredient name	Result
Not applicable.	

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# **SECTION 11: Toxicological information**

Information on the likely routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes severe burns.

Ingestion : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact** : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SODIUM SILICATE	Acute EC50 33.53 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 494000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
POTASSIUM HYDROXIDE	Acute LC50 80 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
sodium hypochlorite	Acute EC50 0.67 mg/l Marine water	Algae - Phaeodactylum tricornutum - Exponential growth phase	96 hours
	Acute LC50 56400 μg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 32 μg/l Fresh water	Daphnia - Daphnia magna	48 hours

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# **SECTION 12: Ecological information**

Acute LC50 32 µg/l Marine water Fish - Oncorhynchus kis	sutch - 96 hours
Juvenile (Fledgling, Hate	chling,
Weanling)	
Chronic NOEC 0.5 mg/l Marine water Algae - Isochrysis galba	na - 96 hours
Exponential growth phase	se
Chronic NOEC 0.1 ppm Fresh water Fish - Cyprinus carpio - `	Young 30 days

Conclusion/Summary

: Based on Calculation method: Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

#### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Other adverse effects**: No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes. European waste catalogue (EWC)

Waste code	Waste designation
20 01 15*	Alkalines

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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# **SECTION 14: Transport information**

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN3266	UN3266	UN3266	UN3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide, sodium hypochlorite, solution, mixture)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide, sodium hypochlorite, solution)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide, sodium hypochlorite, solution)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide, sodium hypochlorite, solution)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.

**Additional information** 

ADR/RID : <u>Hazard identification number</u> 80

Limited quantity 1 L Special provisions 274 Tunnel code (E)

ADN : Special provisions 274

**IMDG** : **Emergency schedules** F-A, S-B

Special provisions 274

**IATA** : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

14.6 Special precautions for

user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorization** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : None.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

**Other EU regulations** 

Ozone depleting substances (1005/2009/EU)

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# **SECTION 15: Regulatory information**

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

15.2 Chemical Safety

**Assessment** 

: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Met. Corr. 1, H290	pH of material.
Skin Corr. 1, H314	Calculation method
Aquatic Chronic 3, H412	Calculation method

### Full text of abbreviated H statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of classifications [CLP/GHS]

Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412	ACUTE TOXICITY (oral) - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3
EUH031 Eye Dam. 1, H318	Contact with acids liberates toxic gas. SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Met. Corr. 1, H290	CORROSIVE TO METALS - Category 1
Skin Corr. 1, H314 Skin Corr. 1A, H314	SKIN CORROSION/IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B, H314 Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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## **SECTION 16: Other information**

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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