	MATERIAL SAFETY DATA SHEET	Créé le : 12/03/2013
	QUALITY PROCESS	Modifié le : XX/XX/20XX
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1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name: SH Plus

Producer/supplier: VETALIS
ZI de la Couture
16130 GENTE
France
Tel.: (33) (0)5 45 81 31 12
Fax: (33) (0)5 45 81 02 92

Emergency call: Company ORFILA : (33) (0)1 45 42 59 59
Information in case of emergency:
Poison control centre hospital Lariboisière, 2, rue Ambroise Paré, 75010 PARIS
Tel.: (33) (0)1 49 95 65 65
or the nearest poison control centre
You can also contact the INRS (Institut National de Recherche et de Sécurité)
Tel.: (33) (0)1 40 44 30 00

2 – COMPOSITION/INFORMATION ON INGREDIENTS

Directive requires reporting in this section of the MSDS for hazardous substances in the preparation although this preparation is not dangerous in the end.

Representative hazardous components:

This preparation does not contain any hazardous substance of this category.

Other substances presenting a potential danger:

INDEX	CAS	CE	Name	Symbol	R	%
011-002-00-6	1310-73-2	215-185-5	Caustic soda	C	35	25<=x%<40

Substances with a concentration less than the Lowest Hazard Limit

This preparation does not contain any hazardous substance of this category.

Other substances having Occupational Exposure Limit Values:

This preparation does not contain any hazardous substance of this category.


3 – HAZARD IDENTIFICATION.

Identified hazards: The preparation is classified as corrosive.

Rédigé par : Angélique Bourasseau	Vérifié par :	Approuvé par :
FONCTION : Assistante GPAO/Achats	FONCTION :	FONCTION :
DATE : 06/12/2012	DATE :	DATE :
VISA : AB	VISA :	VISA :

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Denomination: Caustic soda
CAS No.: 1310-73-2
Annex No.1: 011-002-00-6
EINECS No.: 215-185-5
Symbol C (Corrosive)
Classification: R35

4 - FIRST AID MEASURES.

Details of first aid:

- After inhalation: Move the victim to a well-ventilated place.
- After contact with eyes: rinse off immediately and thoroughly with water with soap during 15 minutes while maintaining the lids opened. Always seek medical advice.
- After contact with skin: Clean immediately the skin with plenty of water. Quickly take off the soiled clothes (put them on again only after washing).
- After ingestion: Do not make the victim vomit. If and only if the person is conscious, rinse off the mouth with water and do not give anything to drink. The victim must seek medical advice at short notice.

5 - FIRE-FIGHTING MEASURES.

In the case of fire, the recommended extinguishing media are:

All extinguishing media are acceptable, except water systems

Specific risks:

WATER MUST NOT BE USED

Hazardous decomposition products:


Decomposition in case of fire with releasing of sodium oxide toxic smokes.

Advice for fire-fighters:

Wear acid resistant over suit when in close proximity, wear self-contained breathing apparatus.

Other information:

Avoid releasing the extinction waters in the sewer.

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6 - ACCIDENTAL RELEASE MEASURES

Prevention individual measures:

Use protection equipment as specified in paragraph 8. Avoid contact with skin, eyes and clothes. Use gloves, glasses and masks.

Environment protection measures:

Prevent entry to sewers, rivers or soil.

Cleaning/Collect process:

Collect the substance with suitable means avoiding dust formation.

Cleaning/Decontaminations:

Clean thoroughly the place with water.

7 - HANDLING AND STORAGE.

Handling:

- Dilution: add the product in water but never the other way around
- Precautions: Keep away from reactive products.

Utilization advice:

Avoid contact with water and dampness

Storage:

Store in a dry, cool and well-ventilated place (hygroscopic product).

Keep the original packaging closed and well-protected from atmospheric influences such as frost and sun.

Avoid storage near acid. Product with possibility of caking.

Storage materials:

Woven plastic materials + polyethylene (PE), PE, paper + PE, steel.

Other information:

Warn the staff about the dangers of the product.

8 – EXPOSURE CONTROL – INDIVIDUAL PROTECTION

Technical measures:

Install devices to meet exposure limit values.

Personal Protective Equipment (PPE):

- Respiratory protection: Anti-dust mask, type P2,
- Hands protection: Waterproof chemical resistant protective gloves
- Eye protection: Safety glasses in all cases of industrial uses, waterproof chemical glasses
- Skin protection: Waterproof usual clothing

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Emergency collective capacities:

Safety showers and eye bath nearby.

Hygiene measures:

Do not eat, drink or smoke during handling. Wash hands with water and soap after using the preparation.

Other information :

Respect local and national regulations concerning water discharges.

9 - PHYSICAL CHARACTERISTICS

Etat physique: hygroscopic liquid gel

Odour: None

Colour: purple

pH of the preparation: 9,3

Characteristic temperatures (change of state): not determined

- Pour point : not determined
- Caking : not determined
- Softening point : not determined
- Dehydration : not determined
- Boiling point : not determined

Decomposition temperatures

- Flammability characteristics: not determined
- Flash point: not applicable
- Auto-ignition temperature: not determined

Density: 1.43

Solubilities:

- In water: not determined
- In organic solvents: not determined


Liposolubility: not determined

Hygrocapacity:

- Evaporation rate: not determined
- Further information: not determined

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10 - STABILITY AND REACTIVITY.

Stability:

The preparation is stable in normal conditions of storage and use.

Conditions to avoid:

The product is hygroscopic and can cake. Avoid heat and dampness. Reacts violently with acids.

Materials to avoid:

The formed water solutions are heavily alkaline; attack some metals (Aluminum Al, Zinc Zn, Tin Sn and their alloys) with hydrogen emission (flammable and explosive gas). Fluor. Lithium.

Possible dangerous reactions:

Heavy exothermic reaction with acids.

Hazardous decomposition products:

Hydrogen from contact with light alloys.

11 - TOXICOLOGICAL INFORMATION.

Chronic / long term toxicity:

Inhalation, acute and repeated exposure, rat, target organs: respiratory system, corrosive effect.

Impact on health:

- Corrosive to mucous membranes, eyes and skin. Deaths observed with a single dose from 5 grams for adults of less than 70kg.
- **Inhalation:** Severe irritation of the nose and throat, coughing and difficult breathing. At high concentrations: risk of chemical broncho-pneumonia, pulmonary edema. In case of repeated or prolonged exposure: risk of sore throat, nose bleeds, chronic bronchitis.
- **Eye contact:** Severe irritation, tearing, redness and swelling of the eyelids. Risk of serious or permanent eye injury. Risk of loss of sight.
- **Skin contact:** Painful irritation, redness and swelling of the skin. Risk of deep burns slow to heal.
- **Ingestion:** Severe irritation, burns, risk of gastrointestinal perforation with state of shock. Heavy salivation, risk of throat edema and suffocation. Nausea and blood vomiting, abdominal cramps and bloody diarrhea. Risk of general symptoms.

12 - ECOLOGICAL INFORMATION.

Mobility:

- Air: instantaneous degradation
- Water: Important solubility and mobility
- Soil / sediments: Important solubility and mobility, significant contamination of groundwater.


Effects on aquatic organisms: harmful because of the alkaline pH of the preparation.

Volatility: Not determined

Adsorption / Desorption: Not determined

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Precipitation: Not determined
Surface tension: Not determined

Target compartment of the preparation:

Degradability: Not determined

Abiotic degradation: Not determined

- Hydrolysis: Not determined
- Photolysis: Not determined
- Other physico-chemical reactions: Not determined

Biodegradability:

- Primary aerobic: Not determined
- Ultimate aerobic: Not determined
- Anaerobic: Not determined

Persistence: Not determined

Bio-accumulation: Not determined

Octyl alcohol/water partition coefficient: Not determined

BCF: Not determined

Biomagnifying: Not determined

Ecotoxicity: Not determined

13 – DISPOSAL CONSIDERATIONS.

Product disposal:

In accordance with applicable law and regulations. Dispose the infected product and the used material for pouring cleaning/leak in accordance with government directives. Contains sodium hydroxide. Waste code 06 02 04.

Soiled packaging:

Empty packaging can retain residue and appropriate measures must be taken to dispose the waste.

14 - TRANSPORT INFORMATION.

UN number: 1823

Hazard label: 8 (Corrosive)

Hazard class: 8

Hazard code: 80

Packing group: II

PSN : SODIUM HYDROXIDE, SOLID


Transport the product in accordance with ADR regulations for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

15 – REGULATORY INFORMATION.

Packaging and labelling (directive 67/548/CE and amendments)

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Hazard symbol: C – Corrosive

Risk phrases:

R35: Causes severe burns

Safety phrases/prudence advice:

S1/2: Keep locked up and out of the reach of children (compulsory if the product is for sale to the general public)

S22: Do not breathe dust

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28: After contact with skin, wash immediately with plenty of water

S36/37/39: Wear suitable protective clothing, gloves and eye and face protection.

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

16 - OTHER INFORMATION.

Texts of quoted R-phrases:

R35: Causes severe burns

Caution : Product for industrial use only.

This content and format of this material safety data sheet are consistent with the directive 93/112/CE and the Regulation (EC) No.1907/2006 of European Parliament and Council of 18 December 2006 (REACH), annex 2.

This document applies to the product as is, in conformity with the specifications supplied and used alone.

In case of combinations or mixing, ensure that no hazard may happen.

The information in this MSDS was given in good faith and based on our most recent knowledge relating to the concerned preparation, at the printing date.

The attention of the users is drawn to the possibly incurred risks when a product is used with other uses than those for which it is conceived. This sheet should be used and reproduced only for prevention and safety purposes.

The enumeration of the legislative, regulatory and administrative texts cannot be considered as exhaustive. The consignee of this preparation should refer to all the official texts concerning the use, possession and handling of the preparation for which he alone is responsible.

All persons using the preparation should have the proper knowledge about the preparation (use, storage, containers cleaning, different interventions), and all information necessary for safety at work, health and environment protection, by being transmitted this material safety data sheet.