

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

1.1. Product identifier

Product form : Mixture
 Product name : RENOFRIT
 Product code : LIQ0172
 Type of product : Detergent

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

E.P.G.C.
 13, Rue des Forts
 59960 Neuville-en-Ferrain - France
 T 0033 3 20 25 06 21
info@epgc.com - www.epgc.com

1.4. Emergency telephone number

Emergency number : INRS/ORFILA (France) : 33 1 45 42 59 59

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1A H314
 Eye Dam. 1 H318

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger
 Hazardous ingredients : sodium hydroxide
 Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
 Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a POISON CENTER, a doctor
 P501 - Dispose of contents/container to hazardous or special waste collection point

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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according to Regulation (EC) No. 453/2010

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27	15 - 30	C; R35
Name	Product identifier	Specific concentration limits	
sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27	(0,5 =< C < 2) Xi;R36/38 (2 =< C < 5) C;R34 (C >= 5) C;R35	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27	15 - 30	Met. Corr. 1, H290 Skin Corr. 1A, H314
Name	Product identifier	Specific concentration limits	
sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27	(0,5 =< C < 2) Eye Irrit. 2, H319 (0,5 =< C < 2) Skin Irrit. 2, H315 (2 =< C < 5) Skin Corr. 1B, H314 (C >= 5) Skin Corr. 1A, H314	

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Assure fresh air breathing. Keep victim at rest in half upright position. If not breathing, give artificial respiration.
First-aid measures after skin contact	: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Take to hospital.

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

Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: Sore throat. Cough. Shortness of breath. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Redness, pain. Burns.
Symptoms/injuries after eye contact	: Redness, pain. Blurred vision. Burns.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Can occur: gastrointestinal disturbance.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : carbon oxides (CO and CO ₂). At high temperatures : Toxic and corrosive vapours are released.

5.3. Advice for firefighters

Precautionary measures fire	: Self-contained breathing apparatus when in close proximity to fire. Wear proper protective equipment.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.

6.1.1. For non-emergency personnel

Protective equipment : Personal protection. See Heading 8.2. Avoid contact with skin and eyes.

Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Personal protection. See Heading 8.2. Do not breathe gas, fumes, vapour or spray. Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dike the product for recovery.

Methods for cleaning up : Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite or kieselguhr. Dilute residue with water. Use non-corrodable disposal containers.

Other information : Never return spills in original containers for possible later re-use.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not breathe gas, fumes, vapour or spray.

Precautions for safe handling : Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Install a retention tank.

Storage conditions : Keep only in the original container in a cool, well-ventilated place away from moisture.

Incompatible products : Acids. Oxidizing agent.

Storage temperature : 4 - 25 °C

Heat and ignition sources : Store away from direct sunlight or other heat sources.

Prohibitions on mixed storage : Strong acids. Strong oxidizing agents.

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : Keep only in original container. Do not store in corrodable metal.

Packaging materials : PEHD.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium hydroxide (1310-73-2)

France	VLE (mg/m ³)	2 mg/m ³
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8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Face shield. Gloves. Corrosionproof clothing.

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Materials for protective clothing	: Use chemically protective clothing
Hand protection	: Wear suitable gloves resistant to chemical penetration. (EN 374)
Eye protection	: Chemical goggles or face shield. Eye protection (standard EN 166)
Skin and body protection	: Use chemically protective clothing and boots (type PVC).
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended



Thermal hazard protection	: None necessary.
Environmental exposure controls	: Prevent entry to sewers and public waters. Avoid release to the environment.
Other information	: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. The equipment must be cleaned thoroughly after each use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: brown. red.
Odour	: characteristic.
Odour threshold	: Not established.
pH	: 13 - 14
Relative evaporation rate (butylacetate=1)	: Not tested
Melting point	: Not tested
Freezing point	: Not tested
Boiling point	: Not tested
Flash point	: Not tested
Auto-ignition temperature	: Not tested
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not tested
Relative vapour density at 20 °C	: Not tested
Relative density	: 1,21 - 1,31
Solubility	: Material highly soluble in water.
Log Pow	: Not tested
Viscosity, kinematic	: Not tested
Viscosity, dynamic	: Not tested
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

9.2. Other information

Additional information	: None
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with : Acids. May react violently with halogenated hydrocarbons.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Contact with metals produces hydrogen gas which may form explosive mixtures with air.

10.4. Conditions to avoid

High temperature.

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according to Regulation (EC) No. 453/2010

10.5. Incompatible materials

Acids. Oxidizing agent. metals.

10.6. Hazardous decomposition products

Thermal decomposition may produce : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

sodium hydroxide (1310-73-2)

LD50 dermal rabbit	1350 mg/kg
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 13 - 14
Serious eye damage/irritation	: Causes serious eye damage. pH: 13 - 14
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : May cause pH changes in aqueous ecological systems.

sodium hydroxide (1310-73-2)

EC80, crustaceans	40 mg/l (48 Hours)
LC50, Fish	35-189 mg/l (96 Hours)
EC50, crustaceans, Ceriodaphnia dubia	40,4 mg/l (48 Hours)

12.2. Persistence and degradability

sodium hydroxide (1310-73-2)

Persistence and degradability	Inorganic product.
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12.3. Bioaccumulative potential

RENOFRIT

Log Pow	Not tested
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sodium hydroxide (1310-73-2)

Bioaccumulative potential	Not applicable.
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12.4. Mobility in soil

sodium hydroxide (1310-73-2)

Ecology - soil	Soluble in water.
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12.5. Results of PBT and vPvB assessment

Component

sodium hydroxide (1310-73-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Remove to an authorized waste treatment plant.
Sewage disposal recommendations	: Do not allow into drains or water courses.
Waste disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point.

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Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 3266
UN-No. (IMDG) : 3266
UN-No.(IATA) : 3266
UN-No.(ADN) : 3266
UN-No. (RID) : 3266

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable
Transport document description (ADR) : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium Hydroxide, solution CONTAINS Sodium hydroxide(1310-73-2)), 8, II, (E)
Transport document description (IMDG) : UN 3266, 8

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8

IATA

Transport hazard class(es) (IATA) : 8

ADN

Transport hazard class(es) (ADN) : 8

RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

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according to Regulation (EC) No. 453/2010

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : C5
Special provisions (ADR) : 274
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
RENOFRIT is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

Detergent Regulation : Labelling of contents:

Component	%
non-ionic surfactants	<5%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

according to Regulation (EC) No. 453/2010.

	Supersedes	Added	
	Date of issue	Modified	
	Revision date	Modified	
2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
2.2	Labelling according to Directive 67/548/EEC or 1999/45/EC	Removed	
2.2	Labelling according to	Added	

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	Regulation (EC) No. 1272/2008 [CLP]		
7.3	Specific end uses	Added	

Full text of R-, H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
R35	Causes severe burns
C	Corrosive

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product