

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

1.1. Product identifier

Product form : Mixture
 Product name : PROVEN
 Product code : LIQ1479
 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

REALCO S.A.
 Avenue Albert Einstein, 15
 B-1348 Louvain-la-Neuve - Belgium
 T +32 (0)10 45 30 00 - F +32 (0)10 45 63 63
info@realco.be - www.realco.be

1.4. Emergency telephone number

Emergency number : Int+32-70-245.245

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120 Brussels	+32 70 245 245

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, 2-aminoethanol, ethanolamine
 Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
 Precautionary statements (CLP) : P260 - Do not breathe spray, vapours, fume
 P280 - Wear eye protection, face protection, protective clothing, protective gloves
 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

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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	1 - 5	C; R35
2-aminoethanol, ethanolamine	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8	1 - 5	Xn; R20/21/22 C; R34
Amines, coco alkyldimethyl, N-oxides	(CAS No) 61788-90-7 (EC no) 263-016-9 (REACH-no) 01-2119490061-47	0.1 - 1	Xn; R22 Xi; R41 Xi; R38 N; R50

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
2-aminoethanol, ethanolamine	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8	(5 =< C < 10) Xi;R36/37/38 (C >= 10) C;R34

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	1 - 5	Met. Corr. 1, H290 Skin Corr. 1A, H314
2-aminoethanol, ethanolamine	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8	1 - 5	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Amines, coco alkyldimethyl, N-oxides	(CAS No) 61788-90-7 (EC no) 263-016-9 (REACH-no) 01-2119490061-47	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

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
2-aminoethanol, ethanolamine	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8	(C >= 5) STOT SE 3, H335

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	: Obtain emergency medical attention. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove victim to fresh air. Assure fresh air breathing. Keep victim at rest in half upright position.
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. Drink plenty of water. 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	: Cough. Shortness of breath. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Redness, pain. Burns.
Symptoms/injuries after eye contact	: Redness, pain. Burns. Blurred vision.
Symptoms/injuries after ingestion	: Ingestion may cause nausea, vomiting and diarrhea. Can occur: gastrointestinal disturbance.

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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.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : At high temperatures : Toxic and corrosive vapours are released.
Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

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

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 : Breathing equipment. See Heading 8.2.
Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Personal protection. Equip cleanup crew with proper protection. Avoid any direct contact with the product. See Heading 8.2.
Emergency procedures : Stop leak if safe to do so. Evacuate unnecessary 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 for recovery or absorb with appropriate material.
Methods for cleaning up : Absorb spillage to prevent material damage. Rinse with plenty of water.
Other information : Spill area may be slippery.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Provide good ventilation in process area to prevent formation of vapour.
Precautions for safe handling : Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not breathe Vapours, Dust. Use personal protective equipment as required.
Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Install a retention tank.
Storage conditions : Keep only in the original container. Keep in a cool, well-ventilated place. Keep container closed when not in use.
Incompatible products : Strong acids.
Storage temperature : 4 - 25 °C
Heat and ignition sources : Store away from direct sunlight or other heat sources.
Storage area : Store in a well-ventilated place.
Special rules on packaging : 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

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sodium hydroxide (1310-73-2)		
Belgium	Local name	Sodium (hydroxyde de)
Belgium	Limit value (mg/m ³)	2 mg/m ³
Belgium	Remark (BE)	M
2-aminoethanol, ethanolamine (141-43-5)		
EU	IOELV TWA (mg/m ³)	2,5 mg/m ³
EU	IOELV TWA (ppm)	1 ppm
EU	IOELV STEL (mg/m ³)	7,6 mg/m ³
EU	IOELV STEL (ppm)	3 ppm
Belgium	Local name	Ethanolamine
Belgium	Limit value (mg/m ³)	2,5 mg/m ³
Belgium	Limit value (ppm)	1 ppm
Belgium	Short time value (mg/m ³)	7,6 mg/m ³
Belgium	Short time value (ppm)	3 ppm
Belgium	Remark (BE)	D

8.2. Exposure controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Insulated gloves. Safety glasses.
Hand protection	: Use neoprene or rubber gloves. (EN 134)
Eye protection	: Eye protection (standard EN 166)
Skin and body protection	: Use chemically protective clothing and boots (type PVC).
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Dust/aerosol mask with filter type P2



Thermal hazard protection	: None necessary.
Environmental exposure controls	: Do not allow the product to be released into the environment.
Other information	: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous liquid.
Colour	: Colourless.
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
Critical temperature	: Not tested
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not tested
Relative vapour density at 20 °C	: Not tested
Relative density	: 1 - 1,1
Solubility	: Material highly soluble in water.
Log Pow	: Not tested

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Viscosity, kinematic	: Not tested
Viscosity, dynamic	: Not tested
Explosive properties	: Product is not explosive.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of storage, handling and use.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Heat. Direct sunlight.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

In the event of fire, may decompose : 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
2-aminoethanol, ethanolamine (141-43-5)	
LD50 oral rat	1,515 mg/kg
LD50 dermal rabbit	1,025 mg/kg
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
LD50 oral rat	300 - 2000 mg/kg (OCED 401)
LD50 dermal rat	> 5000 mg/kg (OCED 402)

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

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)
2-aminoethanol, ethanolamine (141-43-5)	
LC50, Fish, Oncorhynchus mykiss (Rainbow trout)	150 mg/l (96 Hours)
EC5, aquatic invertebrates, E.sulcatum	45 mg/l (72 Hours)

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2-aminoethanol, ethanolamine (141-43-5)	
EC50, aquatic invertebrates, Daphnia magna	65 mg/l (48 Hours)
IC50, algae, Desmodesmus subspicatus	22 mg/l (72 Hours)
IC5, algae, Scenedesmus quadricauda	0.75 mg/l (8 days)
EC50, Bacteria, Activated sludge	> 1000 mg/l (3 Hours, (OCDE 209))
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
LC50, Fish, Pimephales promelas	1-10 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	1 - 10 mg/l (48 Hours, (OCDE 202))
EC50, algae, Pseudokirchneriella subcapitata	0.1 - 1 mg/l (72 Hours, (OCDE 201))

12.2. Persistence and degradability

sodium hydroxide (1310-73-2)	
Persistence and degradability	Inorganic product.
2-aminoethanol, ethanolamine (141-43-5)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	800 g O ₂ /g substance 5 days
ThOD	1,31 g O ₂ /g substance
Biodegradation	90 - 100 % 28 days
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % (OECD 301B method)

12.3. Bioaccumulative potential

PROVEN	
Log Pow	Not tested
sodium hydroxide (1310-73-2)	
Bioaccumulative potential	Not applicable.
2-aminoethanol, ethanolamine (141-43-5)	
Log Pow	-1,91
Bioaccumulative potential	Not expected.
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Bioaccumulative potential	Unlikely.

12.4. Mobility in soil

sodium hydroxide (1310-73-2)	
Ecology - soil	Soluble in water.
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Ecology - soil	low mobility.

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
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	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

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Refer to manufacturer/supplier for information on recovery/recycling.
Waste disposal recommendations	: Dirty containers can be disposed after rinse as normal waste. Consult therefore your local authority. WHEN TOTALLY EMPTY, containers are recyclable like any other packing.
Ecology - waste materials	: Collect all waste in suitable and labelled containers and dispose according to local legislation. Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances
H code	: H8 - 'Corrosive': substances and preparations which may destroy living tissue on contact.
R code/ D code	: D9 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

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SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	: 1760
UN-No. (IMDG)	: 1760
UN-No.(IATA)	: 1760
UN-No.(ADN)	: Not applicable
UN-No. (RID)	: 1760

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: CORROSIVE LIQUID, 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 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS Sodium hydroxide(1310-73-2)), 8, III, (E)
Transport document description (IMDG)	: UN 1760, 8, III

14.3. Transport hazard class(es)

ADR

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



IMDG

Transport hazard class(es) (IMDG)	: 8
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IATA

Transport hazard class(es) (IATA)	: 8
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ADN

Transport hazard class(es) (ADN)	: Not applicable
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RID

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



14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
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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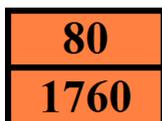
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14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : C9
Special provisions (ADR) : 274
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

14.6.2. Transport by sea

MFAG-No : 154

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
PROVEN 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 chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

	Supersedes	Modified	
	Revision date	Modified	
	Date of issue	Modified	
	Version	Modified	
	Product code	Modified	

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H400	Very toxic to aquatic life
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R34	Causes burns
R35	Causes severe burns
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

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