SAFETY DATA SHEET "STONE SOAP"

1) IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Commercial name:	Stone Soap - Perform Stone Soap Special the Original
Use of the substance:	Professional environmentally friendly cleaners
COMPANY IDENTIFICATION:	**KLINDEX srl** s.s.5 Tiburtina Valeria km 209+200 65024 Manoppello (PE) ITALIA Tel: (+39) 085 859 8546 Fax: (+39) 085 8599 224 Web: www.klindex.it Mail: info@klindex.it
Emergency Number:	(+39) 085 859 8546

2) HAZARDS IDENTIFICATION

2.1 Classification:
Classification (1999/45/EC)
This product is not classified as flammable, harmful or dangerous for the environment.
Classification CLP (1272/2008/EC)
Skin irritation – Category 2; H315
Serious eye irritation – Category 2; H319

2.2 Label elements:
Pictogram

Signal Word: Warning

Containing substances
2-Aminoethanol
Hazard statement Code(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
Precautionary statements
P280 Wear protective gloves/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362 Take off contaminated clothing and wash before reuse.
P337+P313 If eye irritation persist: Get medical advice/attention.
2.3 Other hazards
This product is not considered to contain any substances that meet the criteria for classification as PBT or vPvB substances.

3) COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Chemical composition: Mixture

Components	CAS-No EC-No Reg-No	Conc. %	Symbol & R-phrases*	Hazard Class and Category Code(s)	Hazard statement Code(s)*
1-(2-	34590-94-8	5 - 15	-	-	-

ethoxyisopropoxy)-2-propanol	252-104-2 01-2119450011-60-xxxx				
2-Aminoethanol	141-43-5 205-483-3 01-2119486455-28-xxxx	1-< 3	C ; R34 Xn ; R20/21/22	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B STOT Single 3	H302 H312 H332 H335
Perfume	-	< 0.5	-		

*The full text of Risk phrases and Hazard statement Codes are listed under heading 16.

Composition Comments
Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

The classification is based on information from the chemical supplier and www.ecb.europa.eu (databases)
Description of symbols abbreviations:
T= Toxic; T+= Very toxic; C= Corrosive; Xn= Harmful; Xi= Irritant; O= Oxidizing; E= Explosive; F= Highly flammable; F+= Extremely flammable; N= Dangerous to the environment

4) FIRST AID MEASURES

4.1 Description of first aid measures:
General information
In all cases of doubt, or when symptoms persist, seek medical advice. Keep person warm and calm.
Never give fluids or induce vomiting if patient is unconscious.
Inhalation
Fresh air.
Skin contact
Wash with soap and water for several minutes and rinse skin thoroughly. Seek medical advice if the complaints persist.
Eye contact
Important! Rinse immediately with water for at least 10 minutes. Hold eyelids apart. Contact a doctor if the complaints persist.
Ingestion
Rinse mouth and immediately give plenty of milk or water to drink. Seek medical advice.

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

Inhalation:	May cause irritation by inhalation of spray mist (Cough).
Skin contact:	Irritating to skin. (redness, pain)
Eye contact:	Irritation to eyes. (Pain, redness)
Ingestion:	Ingestion in larger doses can cause nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed
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5) FIRE-FIGHTING MEASURE

5.1 Extinguishing media
Water spray, fog or mist, foam, powder or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Do not breathe fumes. During fire, gases hazardous to health may be formed.
5.3 Special protective equipment
Appropriate breathing apparatus may be required.
Additional information
Cool endangered containers with water in case of fire.

6) ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment.

Avoid contact with skin and eyes.
Risk of slipping.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Re-use product if possible. Small quantities may be wiped up with a cloth. Larger spill: Contain spill with inert material. Absorb in vermiculite, dry sand or soil. Rinse with plenty of water.

6.4 Reference to other sections

For handling and storage, see section 7.
For personal protection, see section 8.
For disposal of spillage, see section 13.

7) HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment.
Avoid contact with skin and eyes.
Normal precautions taken when handling chemicals should be observed.
Run risks of slipperiness.
Wash hands during work breaks and the end of the shift.
Do not eat, drink or smoke when use this product.

7.2 Conditions for safe storage, including any incompatibilities

Store upright in original closed containers in a dry place at room temperature.
Suitable storage materials: Polyethylene (PE).
Inappropriate storage material: PVA (polyvinylalcohol).

7.3 Specific end use(s)

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8) EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Appropriate engineering controls

Provide adequate ventilation.
Provide eyewash station.

Exposure limits

Swedish limit values or limit values according to the European commission:

Substance	CAS-No	Level limit	Ceiling limit	Short time	Note
1-(2-ethoxyisopropoxy)-2-propanol	34590-94-8	50 ppm 300 mg/m³	-	75 ppm 450 mg/m³	-
2-Aminoethanol	141-43-5	3 ppm 8 mg/m³	-	6 ppm 15 mg/m³	H

Note:
H = Substance may be absorbed through the skin.

DNEL

1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	Long term exposures – Workers Systematic effects, dermal: 65 mg/kg/day Long term exposures – Workers Systematic effects, inhalation: 310 mg/m3 Long term exposures – Consumers Systematic effects, dermal: 15 mg/kg/day Long term exposures – Consumers Systematic effects, inhalation: 37,2 mg/m3 Long term exposures – Consumers Systematic effects, oral: 1,67 mg/kg/day
2-Aminoethanol	Long term exposures – Workers Systematic effects, dermal: 1 mg/kg/day Long term exposures – Workers Systematic effects, inhalation: 3,3 mg/kg/day Long term exposures – Workers

	Local effects, inhalation: 3,3 mg/kg/day Long term exposures – Consumers Systematic effects, dermal: 0,24 mg/kg/day Long term exposures – Consumers Systematic effects, inhalation: 2 mg/kg/day Long term exposures – Consumers Local effects, inhalation: 2 mg//kg/day Long term exposures – Consumers Systematic effects, oral: 3,75 mg/kg/day	

PNEC

1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	19 mg/l	Freshwater
1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	1.9 mg/l	Seawater
1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	190 mg/l	Water
1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	70.2 mg/kg	Wet sediment (Freshwater)
1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	7.02 mg/kg	Wet sediment (Seawater)
1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	2.74 mg/kg	Soil
1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	4168 mg/l	Sewage Treatment Plant
2-Aminoethanol	0.085 mg/l	Freshwater
2-Aminoethanol	0.0085 mg/l	Seawater
2-Aminoethanol	0.025 mg/l	Intermittent release
2-Aminoethanol	0.425 mg/kg	Wet sediment (Freshwater)
2-Aminoethanol	0.0425 mg/kg	Wet sediment (Seawater)
2-Aminoethanol	0.035 mg/kg	Soil
2-Aminoethanol	100 mg/l	STP

8.2 Exposure controls:

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat or drink during work –
no Smoking. Handle in accordance with good industrial hygiene and safety practice.

Individual protection measures, such as personal protective equipment

Always consult a competent person/supplier when selecting personal protective equipment.

Respiratory protection

Normally not needed.

Hand protection

Use protective gloves (for ex. Nitrite rubber, PVC)..

Eye protection

Wear tightly fitting protective goggles if there is a risk of direct contact or splash.

Clothing requirements

Wear suitable protective clothing.

9) PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Form	Liquid
Colour	Yellowish brown
Odour	Faint scent of citrus
Odour threshold	Not determined
pH-value (Conc.)	About 8,5
Melting point/freezing point (°C)	About 0
Initial boiling point and boiling range (°C)	About 100
Flash point (°C)	Not determined
Evaporation rate (°C)	Not determined
Flammability (solid, gas)	Not determined
Upper flammability or explosive limits	Not determined
Lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Density	995 kg/m3

Solubility in water	Soluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Viscous, about 200 cPs
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information:
None.

10) STABILITY AND REACTVITY

10.1 Reactivity
Stable under recommended storage and handing conditions.
10.2 Chemical stability
Stable under recommended storage and handing conditions.
10.3 Possibility of hazardous reactions
No known.
10.4 Conditions to avoid
No known.
10.5 Incompatible materials
Strong acids and strong oxidizing agents.
10.6 Hazardous decomposition products
No known.

11) TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
See section 4. (Most important symptoms and effects, both acute and delayed)
Acute toxicity
Information about this preparation is not available.

Toxicology data for the containing components:

1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	LD50 Oral rat: >4000 mg/kg LC50 Inhaled rat 7h: 3.35 mg/l LD50 Dermal rabbit: 9500 mg/kg
2-Aminoethanol	LD50 Oral rat: 1515 mg/kg LD50 Dermal rabbit: 2504 mg/kg

Effects of chronic exposure:
No known.
Routes of exposure:
Eyes and skin, ingestion, inhalation.
Allergenic potential
The product is not classified as allergenic by inhalation or skin contact but it contains a small amount of allergenic perfume at a concentration below reportable levels.
Carcinogenicity, mutagenicity and toxicity for reproduction
This product do not contain any substances classified as carcinogen, mutagen and toxic for reproduction.
Other information
None

12) ECOLOGICAL INFORMATION

This product is not classified as dangerous for the environment.
Do not flush into surface water or sanitary sewer system.
12.1 Toxicity
Information about this preparation is not available.

Toxicology data for the containing components:

1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)	LC50 Fish 96h: >10000 mg/l Sp: Pimephales promelas EC50 Daphnia 48h: 1919 mg/l Sp: D. magna IC50 Bacteria: 4168 mg/l Sp:Pseudomonas putida
2-Aminoethanol	LC50 Fish 96h: 349 mg/l Sp: Cyprinus carpio LC50 Fish 96h: 170 mg/l Sp: Carassius auratus EC50 Daphnia 48h: 65 mg/l Sp: Daphnia magna EC50 Algae 72h: 2.5 mg/l Sp: Selenastrum capricornutum EC50 Algae 72h: 22 mg/l Sp: Scenedesmus subspicatus EC20 Bacteria 30 min: >1000 mg/l Sp. Activated sludge EC50 Bacteria 3h: >1000 mg/l Sp. Activated sludge NOEC Daphnia 21 days: 0.85 mg/l Sp: Daphnia magna

12.2 Persistence and degradability
1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8) – Readily biodegradable.
2-Aminoethanol (141-43-5) – Readily biodegradable-
12.3 Bioaccumulative potential
Does not bioaccumulate. - 1-(2-ethoxyisopropoxy)-2-propanol (34590-94-8)
Does not bioaccumulate - 2-Aminoethanol (141-43-5)
12.4 Mobility in soil
Soluble in water.
12.5 Results of PBT and vPvB assessment
This product is not considered to contain any substances that meet the criteria for classification as PBT or vPvB substances.
12.6 Other adverse effects
No know.

13) DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
The product
Dispose of in accordance with local authority requirements. Do not empty into drain.
Not hazardous waste.
Suggested EWC-code:
20 01 30 detergents other than those mentioned in 20 01 29
Disposal of Packaging:
Empty and cleaned packaging can be recycled.

14) TRANSPORT INFORMATION

The product is not classified as dangerous goods according to ADR/RID, IMDG, DGR
14.1 UN number
-
14.2 UN proper shipping name (IMDG, IATA/ICAO):
-
14.3 Transport hazard class(es)
-
14.4 Packing group
-
14.5 Environmental hazards
Marine Pollutant: No

14.6 Special precautions for user

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

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15) REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Classification according to CLP (1272/2008/EC)
Chemical safety assessment

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16) OTHER INFORMATION

The full text of Risk phrases and Hazard statement Codes:
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R34 Causes burns
H302 Harmful if swallowed
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled
H334 May causes respiratory irritation.

Version 2: 2015-01-05
Safety data sheet according to Regulation (EC) No. 1907/2006 and (EG) 453/2010
Previous versions:
Version 1: 2013-04-03

Explanation of abbreviations
BCF: Bio Concentration Factor.
CAS-nr Chemical Abstracts Service number
EC_{50}: Effect Concentration
IMDG: International Maritime Dangerous Goods Code.
LC_{50}: Lethal Concentration
LD_{50}: Lethal Dose
NOEC: No Observed Effect Concentration
PBT- substances: Persistent, Bio accumulative and Toxic substances.
vPvB- substances; Very persistent and Very Bio accumulative substances.