

D14**321080001****1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY**

Trade name : D14
Type of product : Liquid.
Use : For professional use only.
Company identification : Ecover Belgium NV
Industrieweg 3
2390 Malle Belgium
Phone : +32 (0)3 309 25 00
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Emergency phone nr : +32 (0)70 245 245 (Antipoison Centre Belgium)
Responsible for placing on the market : See address above.

2 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Preparation.
Components : This product is hazardous.
Composition : Regulation (CE) No. 648/2004 of 31 March 2004 on detergents:

Substance name	Contents	CAS No	EC No	Index No	Classification
Potassium hydroxide	> 10 %	1310-58-3	215-181-3	019-002-00-8	Xn; R22 C; R35
Sodium metasilicate	Between 1 and 10 %	10213-79-3	229-912-9	----	C; R34 Xi; R37
Sodium carbonate	Between 1 and 10 %	497-19-8	207-838-8	011-005-00-2	Xi; R36

INCI : POTASSIUM HYDROXIDE
SODIUM METASILICATE
SODIUM CARBONATE

3 HAZARDS IDENTIFICATION

Hazards identification : According to the Preparation Directive 1999/45/EC this product is classified as:
Corrosive.
Risk Phrases : R35 : Causes severe burns. - R37 : Irritating to respiratory system.
- Inhalation : Overexposure to vapours may result in cough.
Sore throat.
Shortness of breath.
- Skin contact : Corrosive.
Causes severe burns.
Redness, pain.
- Eye contact : Corrosive.
Decrease of vision.
Redness, pain.
- Ingestion : If ingested may cause corrosion of gastrointestinal tract.
Abdominal pain.
Diarrhea.
Vomiting.

4 FIRST AID MEASURES

- Inhalation : Fresh air, rest in half sitting position. Seek medical advice.
- Skin contact : Rinse affected area thoroughly with water to remove concentrated product.
Remove contaminated clothing.
Seek medical attention immediately.
- Eye contact : Rinse immediately and for at least 15 minutes with copious amounts of water (also assure adequate flushing under the eyelids and if possible after having removed

D14**321080001****4 FIRST AID MEASURES (continued)**

- Ingestion : contact lenses). Bring the victim to an ophthalmist.
: Wash out mouth and do not induce vomiting. Seek medical attention.
- Note to physician : No specific recommendations.
- Workplace equipment : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

5 FIRE-FIGHTING MEASURES

- Specific hazards : None.
- Extinguishing media
- Suitable extinguishing media : All extinguishing media can be used.
- Unsuitable extinguishing media : None.
- Protection against fire : Exercise caution when fighting any chemical fire.
Do not enter fire area without proper protective equipment, including respiratory protection.
See Heading 8.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : Spill area may be slippery.
Avoid contact with skin, eyes and clothes.
Equip cleanup crew with proper protection.
See Heading 8.
- Environmental precautions : Avoid release to the environment.
Prevent entry to sewers and public waters.
- Clean up methods : Recover spilled material as much as possible in a clean container, spilled product must be collected with sand or an inert absorbent material and dispose of as chemical waste. Rinse away remainder with water.

7 HANDLING AND STORAGE

- Protection against fire : Not expected to be a fire/explosion hazard under normal conditions of use.
- Storage : Store in a cool and frost-free place in a closed packaging.
Do not store in corrodable metal.
- Handling : Avoid contact with skin, eyes and clothes.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection
- Skin protection : Wear waterproof gloves (preferably PVC or butylrubber) in case of intensive use or contact with undiluted product.
Wear waterproof gloves and alkaline protective clothing when taking up intensively material which is accidentally released.
- Eye protection : Wear safety goggles when clearing accidentally released material and if there is a risk of splashing.
- Respiratory protection : Ensure sufficient ventilation. When exposed to high vapor concentrations wear a respirator for inorganic vapors (type B).
- Environment protection see § 6
- Occupational Exposure Limits : Potassium hydroxide : TLV[®] -STEL [mg/m³] : 2

D14**321080001****9 PHYSICAL AND CHEMICAL PROPERTIES**

Physical state at 20 °C	: Liquid.
Colour	: Colourless.
Odour	: Not perfumed.
pH value (concentrated product)	: 14
Density	: 1,219 kg/l
Viscosity	: <50 cP
Solubility in water	: Complete.
Flash point [°C]	: > 100
Volatile Organic Compounds (%)	: 0
Explosion limits	: None.
Oxidising properties	: None.

10 STABILITY AND REACTIVITY

Stability and reactivity	: No decomposition under normal conditions of storage and use.
Conditions to avoid	: Do not store <0°C and >40°C.
Materials to avoid	: Acids. Metals. Halogenated compounds. Oxidizing agent. Organic compounds.
Hazardous decomposition products	: None under normal conditions.

11 TOXICOLOGICAL INFORMATION

Skin irritation (RBC test: Denaturation Index) (ppm)	: No data available.
Eye irritation (RBC test: Mean Indices Ocular Irritancy)	: No data available.
Evaluation of the security for the human health	
- Dermal	: Corrosive.
- Ocular	: Corrosive. The high pH value may lead to permanent eye damage.
- Ingestion	: Hardly toxic (LD 50 rat-oral-theoretic 500-5000 ppm). Toxicological effects mainly due to corrosive properties.
Sensitization	: To the best of our knowledge, this product contains no sensitizing raw materials.
Note	: All ECOVER PROFESSIONAL products contain only ELINCS or EINECS registered raw materials and do not contain any ingredients known to be mutagenic, carcinogenic, teratogenic or reproduction toxic (R45,46,47,49,60,61,63,64, EU 97/C234, 67/548/EEC, 88/379/EEC, OSHA, NTP, IARC (cat 1-3))


12 ECOLOGICAL INFORMATION

Ecological effects information	
Biodegradation [%] Sapromat respirometry test (OECD 301 F)	: No data available.
EC50 72h Algae (Selenastrum capricornutum) [ppm] (OECD 201)	: No data available.
48 Hour EC50 Daphnia magna [ppm] (OECD 202)	: No data available.
Remarks	: EcoPro products do not contain any bioaccumulating raw materials, no perfumes and so obviously no PCM or nitromusk perfume components.

D14**321080001****13 DISPOSAL CONSIDERATIONS**

- General** : Dispose in a safe manner in accordance with local/national regulations.
- Product** : Waste of this product is considered chemical waste. The legislation concerning disposal of waste can differ from one country/state to another. The disposal should therefore be done according to national or local waste legislation. If in doubt, ask the local waste management authority for advice (also see § 6 and § 8 when disposing of).
- Packaging** : The empty packaging should be disposed of chemical waste according to national or local waste legislation. Empty, cleaned packaging is not subject to ADR.

14 TRANSPORT INFORMATION

- UN No.** : 1760
- H.I. nr** : 80
- Land transport**
- ADR/RID** : Class : 8
Group : II
- Proper shipping name** : CORROSIVE LIQUID, N.O.S. (Potassium hydroxide, Sodium metasilicate)
- Labelling ADR** 
- Limited Quantity** : LQ 22
- Additional information** : None.
- Emergency action in case of accident** : Mark roads and warns other road users.
- In case of spillage and/or leakage** : Clean up even minor leaks or spills if possible without unnecessary risk. Recover spilled material as much as possible in a clean container, spilled product must be collected with sand or an inert absorbent material and dispose of as chemical waste. Rinse away remainder with water. Avoid release to the environment.
- Personal precautions** : The driver shall not attempt to deal with any fire of the load.
- Sea transport**
- EMS-Nr** : F-A, S-B
- IMDG-Marine pollution** : No.

15 REGULATORY INFORMATION**Symbol(s)**

- R Phrase(s)** : C : Corrosive.
R35 : Causes severe burns.
R37 : Irritating to respiratory system.
- S Phrase(s)** : S24 : Avoid contact with skin.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).



MATERIAL SAFETY DATA SHEET

According to 2001/58EC

Page : 5

Revised edition no : 1

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16 OTHER INFORMATION

- Training advice** : For correct use of this product: see Technical Data Sheet.
- List of relevant R phrases (heading 2)**: R22 : Harmful if swallowed.
R34 : Causes burns.
R35 : Causes severe burns.
R36 : Irritating to eyes.
R37 : Irritating to respiratory system.
- Sources of key data used** : MSDS and additional literature data of the respective suppliers.
Chemiekaarten, 21th edition, 2006, ed. MIA, VMCI, Samson.
- Revision** : First version of this MSDS in this new format.
- Print date** : 31 / 5 / 2007

The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58EC.

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