

SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation:**

Numero Uno

Use of the substance/preparation:

Cleaner and degreaser.

Company/undertaking identification:

Avmor LTD

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Responsible person for the safety data sheet (e-mail):

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2. Hazards identification

Corrosive preparation.

Classification:

C;R34

3. Composition/information on ingredients

% w/w	Name	CAS-no.	EINECS/ELINCS	Classification
>90	Water	7732-18-5	231-791-2	-
1-5	Potassium hydroxide	1310-58-3	215-181-3	Xn;R22 C;R35
1-5	Disodium metasilicate, pentahydrate	10213-79-6	229-912-9	C;R34 Xi;R37
0.5-1.5	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	270-325-2	Xn;R21/22 C;R34 N;R50 (M=1)
1-5	Alcohols, C ₁₂₋₁₅ , ethoxylated	68131-39-5	500-195-7	Xn;R22 Xi;R41 N;R50 (M=1)
1-5	Alcohols, C ₉₋₁₁ , ethoxylated	68439-46-3	Polymer	Xn;R22 Xi;R38-41

Wording of R-phrases - see section 16.

<5% Nonionic surfactants

<5% Cationic surfactants

4. First-aid measures**Inhalation:**

Move the affected person to fresh air. Keep at rest. If symptoms persist: Seek medical advice.

Skin contact:

Remove all contaminated clothing. Wash skin with water and mild soap. If irritation persists: Seek medical advice.

Eye contact:

Flush with water or physiological salt water for at least 15 minutes, holding eye lids open, remember to remove contact lenses, if any. Seek medical advice.

Ingestion:

Rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical advice.

Information:

Show this safety data sheet to a physician or emergency ward.

5. Fire-fighting measures**Precautions against fire:**

Not flammable.

Suitable extinguishing media:

Not relevant.

Hazardous combustion or decomposition products:

Not relevant.

Protective equipment:

Not relevant.

6. Accidental release measures

Personal precautions:

Use personal protective equipment - see section 8. Ventilate area of leak or spill.

Environmental precautions:

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

Methods for cleaning up:

Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal. Clean with water. Further handling of spillage - see section 13.

7. Handling and storage

Safe storage:

Store in a well-closed original container, non-freezing. Keep out of the reach of children.

Specific use(s):

See section 1.

8. Exposure controls/Personal protection

Exposure limits:

Substance	8-hour TWA	15-min STEL
Potassium hydroxide	-	2 mg/m ³

Exposure controls:

Provide sufficient ventilation. Avoid contact with skin, eyes and clothing. Wash hands and contaminated areas with water and mild soap after use. Change contaminated clothes. There shall be access to water and eye wash fountain.

Personal protective equipment:**Respiratory protection:**

In case of working in not adequate ventilated areas, use an approved mask with a gas filter: P2. The filter has a limited lifetime and must be changed. Read the instruction.

Skin protection:

Wear protective gloves of e.g. butyl rubber or nitrile rubber. It has not been possible to find any data for breakthrough time, so it must be recommended to change the glove if spilled on it.

Eye protection:

Wear tight fitting safety goggles when risk of splashes.

Environmental exposure controls:

-

9. Physical and chemical properties

Appearance:	Orange liquid
Odour:	Ammonia
pH:	>13
Boiling point (°C):	100
Melting point (°C):	-
Vapour pressure (mmHg) v/20°C:	2.3
Relative density (g/ml) v/20°C:	1.030 – 1,050
Water solubility:	Miscible

10. Stability and reactivity

Stability:

Stable under the recommended storage conditions (see section 7). Not combustible.

Conditions to avoid:

Excessive heating or freezing.

Materials to avoid:

Generally avoid mixing with other chemicals, especially other detergents.

Avoid contact with acids, alkalines, oxidizing agents and metals.

Hazardous decomposition products:

When heated to high temperatures (decomposition) it emits toxic fumes such as oxides of carbon.

11. Toxicological information

Routes of exposure:

Skin, lungs and gastrointestinal tract.

Acute toxicity:

Inhalation:

Atomized product can irritate the upper respiratory tract. Symptoms can be throat pain, coughing and difficulty in breathing.

Skin:

Corrosive with pain, blisters and sores. Degreases skin.

Eyes:

Corrosive with redness, pain and blurred vision and permanent damage of the eye.

Ingestion:

Corrosive for the mucous membranes in mouth, throat and stomach. Symptoms can be nausea, stomach ache and vomiting.

Long term toxicity:

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12. Ecological information

Ecotoxicity:

Quaternary ammonium compound and Alcohols, C₁₂₋₁₅, ethoxylated are very toxic in the aquatic environment.

LC₅₀ (96h – fish) = 0.1 - 1 mg/l.

Alcohols, C₉₋₁₁, ethoxylated is toxic in the aquatic environment. EC₅₀ (48h – daphnia) = 5.9 mg/l.

Mobility:

Soluble in water and mobility in the aquatic systems is expected. Surfactants have a strong affinity for particles in the soil.

Persistence and degradability:

The surfactants in the product pass the ultimate biodegradability test according to EC regulation for surfactants in detergents.

Alcohols, C₉₋₁₁, Quaternary ammonium compound and Alcohols, C₁₂₋₁₅, ethoxylated are readily biodegradable (>60% BOD, 28d (OECD 301B+D)).

Bioaccumulative potential:

Alcohols, C₉₋₁₁, Quaternary ammonium compound, Alcohols, C₁₂₋₁₅, ethoxylated: $1 < \log K_{ow} < 3$ – moderate bioaccumulative

Other adverse effects:

The preparation is a strong alkaline. Can possible disturb the ecological balance.

13. Disposal considerations

Comply with national and local regulations. The preparation is to be considered as hazardous waste.

EWC-code:

20 01 29

14. Transport information

UN-no	Proper shipping name	Class	Packing group	MP
3267	CORROSIVE LIQUID, BASIC; ORGANIC, N.O.S (Potassium hydroxide)	8	III	- (ADR/RID)

15. Regulatory information

EC-no.: -

Danger symbol:



Corrosive

Content:

Potassium hydroxide, Disodium metasilicate, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

<5% Nonionic surfactants

<5% Cationic surfactants

Risk- and Safety-phrases:

R 34: Causes burns.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Restriction on application:

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16. Other information

R-phrases mentioned in section 2 and 3:

R 21/22: Harmful in contact with skin and if swallowed.

R 22: Harmful if swallowed.

R 34: Causes burns.

R 35: Causes severe burns.

R 37: Irritating to respiratory system.

R 38: Irritating to skin.

R 41: Risk of serious damage to eyes.

R 50: Very toxic to aquatic organisms.

Training advice:

No special training is required. However, the user should be well instructed in the execution of his task and be familiar with this safety data sheet.

Further information:

The safety data sheet is prepared according to REACH regulation (EC) No. 1907/2006.

Edition No.:

1

Date (revision):

09 November 2007

Changes in section(s):

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