

Safety Data Sheet

OVEN CLEANER



1. Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier Oven Cleaner
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture: PROBLEM SOLVED
- 1.3. Details of the supplier of the safety data sheet
Company : McKLords Ltd
Bodelwyddan Business Park
Abergele Road, Bodelwyddan, LL18 5SX
Telephone : 01745 585995
Telefax : 01745 585755
E-mail address : enquiries@mcklords.com
- 1.4. Emergency telephone number
Emergency telephone number : (open 8:30 – 17:00):01745 585995 (Mcklords)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Met. Corr. 1 - H290
Human health Skin Corr. 1A - H314
Environment Not classified.
C;R35.

Classification (1999/45/EEC)

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word :

Danger

Hazard statements :

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention :

P280 Wear protective gloves/ eye protection/ face protection.

Response :

P301 + P330 + P331 IF SWALLOWED: rinse mouth.
Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/
Take off immediately all contaminated clothing.
Rinse skin with water/ shower.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 IF exposed or concerned:

P310 Immediately call a POISON CENTER or doctor/physician.

Hazardous components which must be listed on the label:

sodium hydroxide

Directive (1999/45/EEC)

Symbol



CORROSIVE

Risk Phrase/s:

R35 Causes severe burns

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

3. Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
sodium hydroxide Index-No.:011-002-00-6 CAS-No.:1310-73-2 EC-No.:215-185-5	1 – 10%	Met. Corr.1 Skin Corr.1A	H290 H314	C; R35

4. First aid measures

4.1 Description of first aid measures

General advice

If inhaled

: Take off all contaminated clothing immediately.

: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

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In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. Rinse mouth with water. Give small amounts of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
No further information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting: Reacts exothermic with water, Gives off hydrogen by reaction with base metals (zinc, aluminium). Risk of explosion.

5.3. Advice for firefighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Danger of slipping if spilled. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

6.2 Environmental precautions

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Environmental precautions :

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

6.3 Methods and materials for containment and cleaning up

Methods and materials for
containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information..

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling :

Keep container tightly closed. Use personal protective equipment. Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Avoid contact with the skin and the eyes. Avoid inhalation of vapour or mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off contaminated clothing and shoes immediately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep in an area equipped with alkali resistant flooring. Store in original container. Materials to avoid; Aluminium; Zinc; Tin; Suitable materials for containers: Stainless steel; carbon steel

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Advice on protection against fire and explosion: The product is not flammable. Normal measures for preventive fire protection. Gives off hydrogen by reaction with base metals (zinc, aluminium). Risk of explosion.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store together with acids and ammonium salts. Materials to avoid: Organic peroxides

German storage class : 8B: Non-combustible substances, corrosive

7.3 Specific end uses

Specific use(s) : Identified use: See table in front of appendix for a complete overview of identified uses.

8. Exposure controls/personal protection

8.1. Control parameters

Component: sodium hydroxide	CAS-No. 1310-73-2
Derived No Effect Level (DNEL)	
Workers, Long-term - local effects, Inhalation	1 mg/m ³
Component: chlorine	CAS-No. 7782-50-5
Other Occupational Exposure Limit Values	
EH40 WEL, Short Term Exposure Limit (STEL): 2 mg/m ³	
ELV (IE), Short Term Exposure Limit (STEL): 2 mg/m ³	

8.2. Exposure controls

Engineering measures

Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Personal protective equipment

Respiratory protection

Advice:

Use respirator with appropriate filter if vapours or aerosol are released. Recommended Filter type:
Particle filter:P2 Particle filter:P3

Hand protection

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Advice : Wear suitable gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear.

Material: Natural Rubber
Break through time: ≥ 8 h
Glove thickness: 0.5 mm

Material: polychloroprene
Break through time: ≥ 8 h
Glove thickness: 0.5 mm

Material: Nitrile rubber
Break through time: ≥ 8 h
Glove thickness: 0.35 mm

Material: butyl-rubber
Break through time: ≥ 8 h
Glove thickness: 0.5 mm

Material: Fluorinated rubber
Break through time: ≥ 8 h
Glove thickness: 0.4 mm

Material: Polyvinylchloride
Break through time: ≥ 8 h
Glove thickness: 0.5 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : alkali resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid
Colour : colourless
Odour : odourless
Odour Threshold : Currently we do not have any Information from our supplier about this.
pH : ca. 14 (20 °C)

9.2 Other information

Corrosion to metals: Corrosive to metals

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10. Stability and reactivity

10.1. Reactivity

Advice : Reacts with acids. Gives off hydrogen by reaction with base metals (zinc, aluminium).

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions : Exothermic reaction with strong acids. Gives off hydrogen by reaction with base metals (zinc, aluminium). Risk of explosion.

10.4. Conditions to avoid

Conditions to avoid : Currently we do not have any Information from our supplier about this.

10.5. Incompatible materials

Materials to avoid : Materials to avoid: Acids, Light metals, Aluminium, Zinc, Organic peroxides

Thermal decomposition : Currently we do not have any Information from our supplier about this.

10.6. Hazardous decomposition products

Hazardous decomposition products: Currently we do not have any Information from our supplier about this.

11. Toxicological information

11.1. Information on toxicological effects

Product: Sodium Hydroxide	CAS-No. 1310-73-2
Acute toxicity	
Inhalation	
	Inhalation may cause pain in respiratory system, sneezing, coughing and difficulty in breathing. Risk for pulmonary edema by high concentration.
Irritation	
Skin	
Result:	Very corrosive (rabbit)
Eyes	
Result:	Very corrosive (rabbit) Risk of serious damage to eyes.
Sensitisation	
Result:	Patch test on human volunteers did not demonstrate sensitization properties.
Further information	
Other relevant toxicity information	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
Component: sodium hydroxide	CAS-No.

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	1310-73-2
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12. Ecological information

12.1. Toxicity

Product: Sodium Hydroxide	CAS-No. 1310-73-2
Acute toxicity	
Fish	
LC50	125 mg/l (Gambusia affinis; 96 h)
LC50	145 mg/l (Poecilia reticulata; 24 h)
Toxicity to daphnia and other aquatic invertebrates.	
EC50	76 mg/l (Daphnia magna; 24 h)
Bacteria	
EC50	22 mg/l (Photobacterium phosphoreum; 15 min)

12.2. Persistence and degradability

Product: Sodium Hydroxide	CAS-No. 1310-73-2
Persistence and degradability	
Persistence	
Biodegradability	
Remarks :	The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Product: Sodium Hydroxide	CAS-No. 1310-73-2
Bioaccumulation	
Remarks :	Does not bioaccumulate.

12.4. Mobility in soil

Product: Sodium Hydroxide	CAS-No. 1310-73-2
Mobility	
Remarks :	The product is mobile in water environment.

12.5. Results of PBT and vPvB assessment

Product: Sodium Hydroxide	CAS-No. 1310-73-2
Results of PBT and vPvB assessment	
Remarks :	No information available.

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12.6. Other adverse effects

Product: Sodium Hydroxide	CAS-No. 1310-73-2
Additional ecological information	
Remarks :	Harmful effects to aquatic organisms due to pH-shift. Neutralization is normally necessary before waste water is discharged into water treatment plants. Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

13.1. Waste treatment methods

Product:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
Contaminated packaging:	Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning. Packaging's that cannot be cleaned are to be disposed of in the same manner as the product.
European Waste Catalogue Number:	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport information

14.1. UN number

1824

14.2. UN proper shipping name

ADR:	SODIUM HYDROXIDE SOLUTION
RID:	SODIUM HYDROXIDE SOLUTION
IMDG:	SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

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ADR-Class
(Labels; Classification Code; Hazard
identification No; Tunnel restriction code): 8
8; C5; 80; (E)

RID-Class
(Labels; Classification Code; Hazard
identification No) 8
8; C5; 80

IMDG-Class
(Labels; EmS): 8
8; F-A, S-B

14.4. Packaging group

ADR : III
RID : III
IMDG : III

14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no
Labeling according to 5.2.1.8 RID : no
Labeling according to 5.2.1.6.3 IMDG : no
Classification as environmentally
hazardous according to 2.9.3 IMDG: no
Classified as "P" according to 2.10 IMDG: no

14.6. Special precautions for user

Note : not applicable

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

IMDG : Not applicable.

15. Regulatory information

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

Other regulations: Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

16. Other information

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service

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DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
MARPOL	International Convention for the Prevention of Pollution From Ships
OEL	Occupational Exposure Limit
PBT	Persistent, Bio accumulative, Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bio accumulative

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.