SAFETY DATA SHEET

SHADOW REMOVER

Compilation date: 05/09/2021
Revision date: 18/08/22
Revision No: 3

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

1.1. Product identifier

Product name: SHADOW REMOVER

Product code: 1082

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Nordic Products and Services
Church Road
Stockton-On-
Tees

TS182HN
United Kingdom
Tel: +44 1642 678015
Email: sales@fisherresearch.com

1.4. Emergency telephone number

Emergency tel: +44 (0)7947 259795
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Skin Corr. 1A: H314

Most important adverse effects: Harmful if swallowed. Causes severe skin burns and eye damage.

2.2. Label elements

Label elements:

Hazard statements: H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.

Hazard pictograms: GHS05: Corrosion

[cont...]

GHS07: Exclamation mark



Signal words: Danger

Precautionary statements: P260: Do not breathe spray.

P280: Wear protective gloves/eye protection.

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

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 .

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

3-BUTOXYPROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
225-878-4	5131-66-8	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315	10-30%

POTASSIUM HYDROXIDE

215-181-3	1310-58-3	-	Acute Tox. 4: H302; Skin Corr. 1A: H314	10-30%

MONOETHANOLAMINE - REACH registered number(s): 01-2119486455-28-XXXX

-	-	-	Acute Tox. 4: H302+H312+H332; Skin Corr. 1B: H314; STOT SE 3: H335; Aquatic Chronic 3: H412	1-10%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

[cont...]

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Immediate / special treatment: Not applicable.

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

[cont...]

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling 7.2. Conditions for safe storage, including any incompatibilities

Handling requirements: Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.
Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

POTASSIUM HYDROXIDE

Workplace exposure limits: **Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m3	-	-

MONOETHANOLAMINE

EU 1	ppm(SK) 2.5 mg/m3(Sk) 3	ppm(Sk) 7.6 mg/m3(Sk)	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

[cont...]

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow-brown

Odour: Characteristic odour

Evaporation rate: No data available. **Oxidising:** No data available. **Solubility in water:** No data available.

Viscosity: Viscous

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: No data available.

Part.coeff. n-octanol/water: No data available. **Vapour pressure:** No data available.

Autoflammability°C: No data available.

pH: >11.5

Relative density: 1.050 - 1.080

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

[cont...]

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability 10.3. Possibility of hazardous reactions

Chemical stability: Stable under normal conditions.

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials 10.6. Hazardous decomposition products

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

3-BUTOXYPROPAN-2-OL

SKN	RBT	LD50	3100	mg/kg

POTASSIUM HYDROXIDE

ORL	RAT	LD50	273	mg/kg

MONOETHANOLAMINE

DERMAL	RBT	LD50	2504	mg/kg
ORAL	RAT	LD50	1515	mg/kg

Relevant hazards for product:

[cont...]

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

POTASSIUM HYDROXIDE

Bacteria (Photobacterium phosphoreum)	15min EC50	22	mg/l
FISH (Gambusia affinis)	96H LC50	80	mg/l
FISH (Poecilia reticulata)	24H LC50	165	mg/l

MONOETHANOLAMINE

Daphnia magna	21days NOEC	0.85	mg/l
Daphnia magna	48H EC50	65	mg/l
FISH (Carrassius auratus-Goldfish)	96H LC50	170	mg/l
FISH (Cyprinus carpio-Common Carp)	96H LC50	349	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	2.5	mg/l
Microorganisms (Activated sludge)	30min EC20	1000	mg/l
Microorganisms (Activated sludge)	3H EC50	1000	mg/l
Scenedesmus Subspicatus	72H ErC50	22	mg/l

[cont...]

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment

Mobility: Readily absorbed into soil.
PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Other adverse effects: Negligible ecotoxicity.

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1814

14.2. UN proper shipping name

Shipping name: POTASSIUM HYDROXIDE SOLUTION (POTASSIUM HYDROXIDE)

14.3. Transport hazard class(es) 14.4. Packing group

Transport class: 8
Packing group: III

14.5. Environmental hazards 14.6. Special precautions for user

Environmentally hazardous: No **Marine pollutant:** No

Special precautions: No special precautions.

[cont...]

Tunnel code: E **Transport category:** 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Chemical Safety Assessment

Specific regulations: Not applicable.

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

[cont...]

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.