

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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TORNADO.

Revision 0

Revision date 2015-04-09

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

1.1. Product identifier

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC35] Washing and cleaning products (including solvent based products);
Description	Traffic film remover.

1.3. Details of the supplier of the safety data sheet

Company	Spectrum Industrial Limited
Address	19/24 Bedesway Bede Industrial Estate Jarrow Tyne & Wear NE32 3EG
Web	www.spectrumindustrial.co.uk
Telephone	0191 4301111
Fax	0191 4837422
Email	sales@spectrum-ind.co.uk
Email address of the competent person	sales@spectrum-ind.co.uk

1.4. Emergency telephone number


Emergency telephone number	0191 4301111 9.00 am - 5.00 pm Mon - Fri
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 67/548/EEC	Xi; R36/38 Symbols: Xi: Irritant.
Main hazards	Irritating to eyes and skin.
2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Eye Irrit. 2: H319;

2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation.

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2.2. Label elements

Precautionary Statement: Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium N-(2-carboxyethyl)-N-(2-ethylexyl)-alaninate		90170-43-7	290-476-8	01-2119976233-35	1 - 10%	Xi; R36
C9-11 Alcohol Ethoxylate		68439-46-3			1 - 10%	Xn; R22 Xi; R41
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5	01-2119457892-27	1 - 3%	C; R35

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium N-(2-carboxyethyl)-N-(2-ethylexyl)-alaninate		90170-43-7	290-476-8	01-2119976233-35	1 - 10%	Eye Irrit. 2: H319;
C9-11 Alcohol Ethoxylate		68439-46-3			1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5	01-2119457892-27	1 - 3%	Skin Corr. 1A: H314;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	Causes burns.
Skin contact	Causes burns.
Ingestion	Ingestion causes burns to the respiratory tract.

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

Inhalation	Seek medical attention.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention.
Ingestion	Seek medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

For personal protection see section 8. Collect and dispose of spillage as indicated in section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

Suitable packaging

Plastic containers.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

WEL = Work place exposure limit.

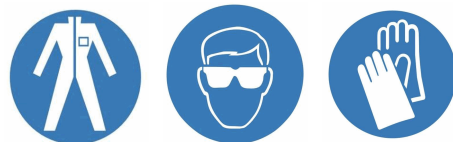
8.1.1. Exposure Limit Values**Sodium hydroxide**

WEL 8-hr limit ppm: -

WEL 8-hr limit mg/m3: -

WEL 15 min limit ppm: -

WEL 15 min limit mg/m3: 2

8.2. Exposure controls**8.2.1. Appropriate engineering controls**

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Wear chemical protective clothing.

Eye / face protection

Approved safety goggles.

Skin protection - Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Fluorescent
Odour	Slight
pH	12.8 - 13.8
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable.
Relative density	1.08 - 1.1 (Water = 1 @ 20 °C)
Autoignition temperature	Not applicable.
Explosive	Not applicable.
Solubility	Soluble in water

SECTION 10: Stability and reactivity

10.1. Reactivity

Avoid contact with: Acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No Significant Hazard.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1.4. Toxicological Information

C9-11 Alcohol Ethoxylate	Dermal Rat LD50: 2000 mg/kg
Sodium hydroxide	Oral Rat LD50: 325 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

C9-11 Alcohol Ethoxylate	Daphnia EC50/48h: 5.3 mg/l	
Sodium hydroxide	Daphnia EC50/48h: 240 mg/l	Fish LC50/96h: 189.0000 mg/l

12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Miscible in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Further information

Ecotoxicity	Not regarded as dangerous for the environment.
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SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

Disposal of packaging

Containers must be recycled in compliance with national legislation and environmental regulations.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN3266

14.2. UN proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide solution)

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards No

Marine pollutant No

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

Not relevant.

ADR/RID

Hazard ID 80

Tunnel Category (E)

IMDG

EmS Code F-A S-B

IATA

Packing Instruction (Cargo) 856

Maximum quantity 60 L

Packing Instruction (Passenger) 852

Maximum quantity 5 L

SECTION 15: Regulatory information

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

Safety Data Sheet prepared in accordance with REACH commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

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

	Ingredients are listed with classification under both CHIP - Directive 67/548/EEC classification, packaging & labelling of dangerous substances & GHS/CLP - Regulations (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.
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SECTION 16: Other information**Other information**

	The Risk Phrases/Hazard statements listed below in this section No 16 relate to the Raw Materials (ingredients) in the Product (as listed in section 3) and NOT the product itself. For the Risk Phrases/Hazard Statements relating to this Product see Section 2.
Text of risk phrases in Section 3	R22 - Harmful if swallowed. R35 - Causes severe burns. R36 - Irritating to eyes. R41 - Risk of serious damage to eyes.
Text of Hazard Statements in Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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