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

1.1. Product identifier

Product name: TORNADO

Product code: TO01

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

Use of substance / mixture: SU 3: Industrial Uses SU 22. Professional Uses paint , carbon Solvent waste for disposal. grease remover

1.3. Details of the supplier of the safety data sheet

Company name: Aquashield Solutions

Arnhall Business Park,
Prospect Road,
Westhill,
Aberdeenshire,
AB32 6FJ

Tel: 0800 246 5656

Email: info@aquashieldsolutions.co.uk

Web: www.aquashieldsolutions.co.uk

1.4. Emergency telephone number

Emergency tel: 0800 246 5656

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 3: H226; STOT SE 3: H336

Most important adverse effects: Flammable liquid and vapour. May cause drowsiness or dizziness.

2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H336: May cause drowsiness or dizziness.

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark



Signal words: Warning

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

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sources. No smoking.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P370+378: In case of fire: Use dry foam, earth or carbon dioxide to extinguish.

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:

1-METHOXY-2-PROPANOL - REACH registered number(s): 01-2119457435-35-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-539-1	107-98-2	Substance with a Community workplace exposure limit.	Flam. Liq. 3: H226; STOT SE 3: H336	>90%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash the skin with plenty of water. Consult a doctor.

Eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. Transfer to hospital as soon as possible.

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

Skin contact: Irritation or pain may occur at the site of contact. Absorption through the skin may occur causing symptoms similar to those of inhalation.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty

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swallowing. Nausea and stomach pain may occur. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

Inhalation: Drowsiness or mental confusion may occur. There may be loss of consciousness.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

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: Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into granules or other sorbent compound. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

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

Handling requirements: Ensure there is sufficient ventilation of the area. Smoking is forbidden. Do not use near hot surfaces, sparks and open flames.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

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:

1-METHOXY-2-PROPANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	375 mg/m ³	560 mg/m ³	-	-

DNEL/PNEC Values

Hazardous ingredients:

1-METHOXY-2-PROPANOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	553.5 mg/m ³	Workers	-
DNEL	Inhalation (repeated dose)	369 mg/m ³	Workers	-
DNEL	Dermal (repeated dose)	50.6 mg/kg/day	Workers	-
PNEC	Fresh water	10 mg/l	-	-
PNEC	Marine water	1 mg/l	-	-
PNEC	Fresh water sediments	41.6 mg/kg	-	-
PNEC	Marine sediments	4.17 mg/kg	-	-
PNEC	Soil (agricultural)	2.47 mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory Protection is not normally required. However, if working without good ventilation, use; Gas/vapour filter, type A: organic vapours (EN141).

Hand protection: Gloves (solvent-resistant).

Eye protection: Safety goggles.

Skin protection: Wear appropriate clothing to prevent any possibility of liquid contact. Ensure safety shower is to hand.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Sweet-smelling

Evaporation rate: Fast

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible

Also soluble in: Most organic solvents.

Viscosity: Viscous

Boiling point/range°C: 120

Flash point°C: 32

Vapour pressure: 11.7 mm Hg@25

Relative density: 0.93 @ 20C

pH: Approx. 7

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

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: Sources of ignition. Hot surfaces. Flames.

10.5. Incompatible materials

Materials to avoid: Oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

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Hazardous ingredients:

1-METHOXY-2-PROPANOL

DERMAL	RBT	LD50	>2000 mg/kg
IVN ORAL	RAT	LD50	4200 mg/kg
ORL ORL	RAT	LD50	4016 mg/kg
VAPOURS	MUS	LD50	11700 mg/kg
	RAT	LDLO	3739 mg/kg
	RAT	4H LC50	>25.8 mg/l

Relevant hazards for product:

Hazard	Route	Basis
STOT-single exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Irritation or pain may occur at the site of contact. Absorption through the skin may occur causing symptoms similar to those of inhalation.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

Inhalation: Drowsiness or mental confusion may occur. There may be loss of consciousness.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

1-METHOXY-2-PROPANOL

Daphnia magna	48H EC50	21100-25900	mg/l
Leuciscus idus	96H LC50	6812	mg/l
Pimephales promelas	96H LC50	>1000	mg/l
Selenastrum capricornutum	48H EC50	>1000	ml/l

12.2. Persistence and degradability

Persistence and degradability: Evaporates and degrades by oxidation/photodegradation in the atmosphere.

Biodegradable in part only.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

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12.4. Mobility in soil

Mobility: Highly volatile. Soluble in water.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Harmful to soil organisms. Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

Disposal of packaging: 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: UN1993

14.2. UN proper shipping name

Shipping name: FLAMMABLE LIQUID, N.O.S.
(1-METHOXY-2-PROPANOL)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/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

Chemical safety assessment: No individual Chemical Safety Assessment is required to be carried out for this product

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because (1) it is classified as a Mixture in REACH and (2) all listed Uses are also listed in the Identified Uses of all of the ingredients. All suitable Control Measures and Risk Management Measures are discussed in relevant Sections of the SDS.

Section 16: Other information

Other information

Other information:NOTICE: The information in this document includes aspects of Intellectual Property belonging to Aquashield Solutions.

Such information is confidential to Aquashield Solutions and is supplied only to permit you to carry out evaluations and statutory assessments required to progress any project(s) which have been under discussion.

This information must be held by you in strictest confidence and must not be disclosed or distributed to any external person, company or organisation without our express permission in writing.

This information can only be distributed among employees of your business who need to use the information in fulfilment of the foregoing purpose and on the strict basis that such employees will hold the information in strictest confidence.

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Classification has been carried out in compliance with Regulation (EC) No. 1272/2008 (The CLP Regulation).

Phrases used in s.2 and s.3: H226: Flammable liquid and vapour.

H336: May cause drowsiness or dizziness.

Legal disclaimer:Should this product be used other than as described in our labelling or marketing information, it is the user's responsibility to assure himself of the applicability and safety of the product for the intended use. The information given in this document is the result of our best researches and is believed by us to be correct but it cannot purport to be all inclusive. It is intended to be used only as a guide and cannot absolve the user from responsibility to carry out his own investigations in the process of formulating risk assessments. This company shall not be held liable for any damage resulting from handling or from contact with the above product when our supplied information, guidelines or advice have not been taken fully into account. In such cases it is the complainer's responsibility to prove that he did do so. This company also cannot be held liable for damage arising due to effects which had not been discovered or were otherwise outwith our reasonable ability to determine at the time that they occurred.