

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier**Product name** ORANGE 10**Product type** Liquid1.2 Relevant identified uses of the substance or mixture**PRODUCT USE** Industrial uses: Uses of substances as such or in preparations at Industrial sites;(PC35) Washing and cleaning products**Description** Orange cleaner and degreaser concentrate1.3 Details of the supplier of the safety data sheet**Supplier** Spectrum industrial limited
Bedesway
Bede industrial estate
Jarrow
Tyne & Wear
NE32 3EG
Tel 0191 4301111**Email address** sales@spectrum-ind.co.uk1.4 Emergency telephone number 0191 4301111 (9.00am – 5pm Mon-Fri)

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification (67/548/EEC) Xi;R36/38

2.1.2 Classification –EC 1272/2008 Skin Sens. 1B:H317;Skin Irrit.2:H315;Eye Dam.1: H318;Aquatic chronic.2:H411

2.2 Label elements

Hazard pictograms

**Signal Word**

Danger

Hazard Statement

Skin Sens. 1B: H317- May cause an allergic skin reaction.

Skin Irrit.2:H315- Causes skin irritation

Eye Dam.1: H318 – Causes serious eye damage

Aquatic chronic 2: H411- Toxic to aquatic life with long lasting effects

Precautionary Statement:

P102 – Keep out of reach of children

Prevention

P273 – Avoid release to the environment

P280 – Wear protective gloves/protective clothing/eye protection/face protection

P501 – Dispose of contents/container as normal industrial waste in accordance with all

Local/national regulations

Precautionary Statement:

P301+P310 – IF SWALLOWED: Immediately call a Poison centre or doctor/physician

Response

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

Revision 03

Contact lenses, if present and easy to do. Continue rinsing
 P333+P313 – If skin irritation or rash occurs get medical advice/attention
 P337+P313 – If eye irritation persists get medical advice/attention

2.3 Other hazards

This product does not contain any PBT or vPvB substances

Supplemental label
 Information
 Contains Orange Terpenes

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
2-(2-Butoxyethoxy)Ethanol	603-096-00-8	112-34-5	203-961-6	01-2119475104-44	5-10%	Xi;R36
C13-15 Alcohol Ethoxylate		68131-39-5			1-5 %	Xn; R22 Xi; R41;R50
Orange Terpenes		8028-48-6	232-433-8		5-10%	Xn; R65;Xi;R38.N;R50/53; R10;R43
2-Aminoethanol	603-030-00-8	141-43-5	205-483-3	01-2119486455-28	1-3%	C;R34.Xn;R20/21/22:R37

EC 1272/2008

Chemical name	Index No	Cas No	EC No	REACH Registration Number	Conc (%w/w)	Classification
2-(2-Butoxyethoxy)Ethanol	603-096-00-8	112-34-5	203-961-6	01-2119475104-44	5-10%	Eye Irrit. 2 – H319
C13-15 Alcohol Ethoxylate		68131-39-5			1- 5%	Acute Tox.4:H302; Eye Dam.1:H318; Aquatic acute 1: H400
Orange Terpenes		8028-48-6	232-433-8		5-10%	Flam.Liq.3 –H226 Asp.Tox.1 – H304 Skin Irrit. 2-H315 Skin Sens.1-H317 Aquatic acute 1:H400 Aquatic Chronic1-H410
2-Aminoethanol	603-030-00-8	141-43-5	205-483-3	01-2119486455-28	1-3%	Acute Tox. 4-H302 Acute Tox.4 –H312 Acute Tox.4 –H332 Skin Corr.1B – H314 STOT SE 3 – H335

SECTION 4 : FIRST AID MEASURES**4.1 Description Of first aid measures****Inhalation**

Move the exposed person to fresh air and keep at rest. Seek medical advice if symptoms persist

Ingestion

DO NOT INDUCE VOMITING. If swallowed seek medical advice immediately and show this container or label.

Skin contact

May Cause an allergic reaction, Wash with soap and water

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Get medical attention if irritation persists.

Revision 03

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms noted

Ingestion

May cause discomfort if swallowed

Skin contact

May cause an allergic skin reaction, prolonged contact will cause irritation to skin

Eye contact

Contact with liquid can cause serious eye damage

4.3 Indication of any immediate medical attention and special treatment needed

Treat Symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate to surrounding materials

5.2 Special hazards arising from the substance or mixture

When heated and in case of fire, harmful vapours/gases may be formed

5.3 Advice for fire-fighters

Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate body.

6.3 Methods and material for containment and cleaning up

Absorb spillage in vermiculite, dry sand or earth and place into containers for disposal. Flush with plenty of water to clean spillage area.

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

Wear suitable protective clothing, gloves and eye/face protection

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated area.

7.3 Specific end use(s)

The identified uses for this product are detailed in section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

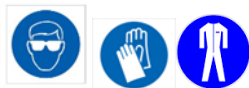
8.1 Control parameters

NAME	STD	TWA-8 Hrs	STEL-15 Min	Notes
2-(2-Butoxyethoxy)Ethanol	WEL	10 ppm 67.5 mg/m ³	15 ppm 101.2 mg/m ³	
2-Aminoethanol	WEL	1ppm 2.5mg/m ³	3ppm 7.6 mg/m ³	Sk

Revision 03

WEL = Workplace exposure limit
 Sk = Can be absorbed through skin.

8.2 Exposure controls



8.2.1 Appropriate engineering Controls

Ensure adequate ventilation of the working area.

8.2.2 Individual Protection Measures

Wear protective clothing in case of splashing

Eye / face protection
 Hand protection

Wear approved safety goggles
 Chemical resistant gloves (PVC).

Respiratory protection

Not normally required but if ventilation is insufficient respiratory protection
 Must be provided

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Pleasant
Solubility	Soluble in water
pH-value	10 - 12
Flash point	>70
Relative density	1.01 – 1.02 (water = 1 @ 20 C)

9.2 Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific reactivity hazards associated with this product

10.2 Chemical stability

Stable under normal temperature conditions

10.3 Possibility of hazardous reactions

Not determined

10.4 conditions to avoid

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

10.5 Incompatible materials

Materials to avoid

No incompatible groups noted

10.6 Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

Revision 03

11.1 Information on toxicological effects

2-(2-Butoxyethoxy)Ethanol	Oral rat LD50 6600 mg/kg
C13-C15 Alcohol Ethoxylate	Oral rat LD50 2000mg/kg
Orange terpenes	Oral rat LD50 >5000 mg/kg
2-Aminoethanol	Oral rat LD50 1515 mg/kg – Dermal Rabbit LD50 2504 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Hazardous to the environment

12.1 Toxicity

2-(2-Butoxyethoxy)Ethanol	Daphnia EC50/48h: >1000 mg/l Fish LC50/96h 2700 mg/l
C13-C15 Alcohol Ethoxylate	Daphnia EC50/48h: 1 mg/l Fish LC50/ 96h 10mg/l
Orange Terpenes	Very toxic to aquatic organisms Daphnia EC50/48h: <1.0 mg/l
2-Aminoethanol	Daphnia EC50/48h: 65 mg/l Fish LC50/96h 349 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 684/2004 on detergents.

12.3 Bioaccumulative potential

Not expected to be bioaccumulating

12.4 Mobility in soil

Soluble in water

12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances

12.6 Other adverse effects

Not known

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Dispose of as hazardous industrial waste in accordance with all local and national regulations.

13.1 Waste treatment methods

Discharge used solutions to drain. Less than 5 litres of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal by approved waste contractor. Consign empty container to industrial waste

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN Number Road 3082
UN Number (IMDG) 3082
UN Number (ICAO) 3082

Revision 03

14.2 UN proper shipping name

Environmentally hazardous substance, liquid N.O.S.(contains ORANGE TERPENES)

14.3 Transport hazard class(es)

ADR/RID/ADN Class 9

ADR/RID/ADN Class 9: Miscellaneous substances and articles

ADR Label No. 9

IMDG Class 9

ICAO Class/Division 9

14.4 Packing group

ADR/RID/ADN Packing group III

IMDG Packing group III

ICAO Packing group III

14.5 Environmental hazards

Environmentally hazardous substance / marine pollutant

14.6 Special precautions for user

EMS F-A,S-F

Emergency action code .3Z

Hazard no (ADR) 90

Tunnel restriction code (E)

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

No information required

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 classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances and mixtures. 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.

15.2 Chemical Safety Assessment

Not applicable this product is a mixture

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

R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R34	Causes Burns
R37	Irritating to respiratory system
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision 03

R65 Harmful: may cause lung damage if swallowed.

Text of hazard statements in section 3

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Further information

The information supplied in this 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.