



SAFETY DATA SHEET Holts -10 Blue Screenwash

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

1.1. Product identifier

Product name	Holts -10 Blue Screenwash
Product number	HSCW0009A, HSCW0012A, HSCW0011A, HSCW0018A, NQA2377
UFI	UFI: S2K6-Y09X-G00H-REX8
EU REACH registration notes	This is a MIXTURE; no registration information contained in this document. Holts are classed as Downstream User.

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

Identified uses	Car maintenance product.
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1.3. Details of the supplier of the safety data sheet

Supplier	Holt Lloyd Services 52 Rue des 40 Mines, 60000 – Allonne, France Phone: +33 (0)3 64 99 00 32 info@holtsauto.com
Contact person	Contact email address: info@holtsauto.com
Manufacturer	Holt Lloyd International Ltd Barton Dock Road Stretford Manchester M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854 www.holtsauto.com

1.4. Emergency telephone number

Emergency telephone	UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs
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Holts -10 Blue Screenwash

National emergency telephone number +43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria)
 +32022649636; info@poisoncentre.be (Belgium)
 +359 2 9154 409; poison_centre@mail.orbitel.bg (Bulgaria)
 +38514686910; toksikologija@hzjz.hr (Croatia)
 +35722405611; cy-chemregistry@dli.mlsi.gov.cy (Cyprus)
 +420267082257; biocidy@mzcr.cz (Czech Republic)
 +45 72 54 40 00; mst@mst.dk (Denmark)
 +372 794 3500; clp@terviseamet.ee, info@terviseamet.ee (Estonia)
 +358 5052 000; kirjaamo@tukes.fi (Finland)
 + 33 3 83 85 21 92; bnpc@chru-nancy.fr (France)
 +49-30-18412-0; bfr@bfr.bund.de (Germany)
 +302106479250; +302106479450; devxp.gcs@aade.gr, environment.gcs@aade.gr (Greece)
 +36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary)
 +354 543 22 22; eitur@landspitali.is (Iceland)
 +353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie (Ireland)
 +390649906140; inscweb@iss.it (Italy)
 +371 67032600; lvgmc@lvgmc.lv (Latvia)
 +370 70662008; aaa@aaa.am.lt (Lithuania)
 +320 22649636; +352 24785551; info@poisoncentre.be; direction-sante@ms.etat.lu (Luxembourg)
 +356 2395 2000; info@mccaa.org.mt (Malta)
 +31 88 75 585 61; productnotificatie@umcutrecht.nl (The Netherlands)
 +4573580500; produktregisteret@miljodir.no / +47 21 07 70 00; folkehelseinstituttet@fhi.no (Norway)
 +48 42 2538 400; biuro@chemikalia.gov.pl (Poland)
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 +46104566750; giftinformation@gic.se (Sweden)
 +44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Hazard pictograms



Signal word	Warning
Hazard statements	H226 Flammable liquid and vapour.

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Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P501 Dispose of contents/ container in accordance with national regulations.

UFI

UFI: S2K6-Y09X-G00H-REX8

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANOL	10-30%
CAS number: 64-17-5	EC number: 200-578-6
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
METHANOL	<1%
CAS number: 67-56-1	EC number: 200-659-6
Classification	
Flam. Liq. 2 - H225	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
STOT SE 1 - H370	
PROPAN-2-OL	<1%
CAS number: 67-63-0	EC number: 200-661-7
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H336	
ETHANEDIOL	<1%
CAS number: 107-21-1	EC number: 203-473-3
Classification	
Acute Tox. 4 - H302	
STOT RE 2 - H373	

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SODIUM HYDROXIDE	<1%
CAS number: 1310-73-2	EC number: 215-185-5
Classification	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

The full text for all hazard statements is displayed in Section 16.

Ingredient notes Ethanol has a Specific Concentration Limit (SCL) of $\geq 50\%$ for classification: Eye Irritant Category 2, H319; Causes Serious Eye Irritation. (Source: ECHA REACH Registration Dossier).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Treat symptomatically.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If throat irritation or coughing persists, proceed as follows. Get medical attention. Show this Safety Data Sheet to the medical personnel. Place unconscious person on their side in the recovery position and ensure breathing can take place. Do not induce vomiting. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Remove any contact lenses and open eyelids wide apart.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause discomfort if swallowed.
Skin contact	May be slightly irritating to skin. Prolonged skin contact may cause redness and irritation.
Eye contact	Causes serious eye irritation. Prolonged contact may cause redness and/or tearing.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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Specific hazards	In case of fire, toxic and corrosive gases may be formed. No unusual fire or explosion hazards noted.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
5.3. Advice for firefighters	
Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with eyes and prolonged skin contact.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from food, drink and animal feeding stuffs. Store in a cool and well-ventilated place. Store in tightly-closed, original container.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

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

Occupational exposure limits

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

Short-term exposure limit (15-minute): WEL

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

PROPAN-2-OL

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Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Sk

SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

DNEL See ingredient-specific DNELs listed below.

PNEC See ingredient-specific PNECs listed below.

ETHANOL (CAS: 64-17-5)

DNEL	Workers - Inhalation; Long term systemic effects: 950 mg/m ³ Workers - Inhalation; Short term local effects: 1900 mg/m ³ Workers - Dermal; Long term systemic effects: 343 mg/kg bw/day General population - Inhalation; Long term systemic effects: 114 mg/m ³ General population - Dermal; Long term systemic effects: 206 mg/kg bw/day General population - Oral; Long term systemic effects: 87 mg/kg bw/day General population - Inhalation; Short term local effects: 950 mg/m ³
PNEC	Fresh water; Long term 0.96 mg/l marine water; Long term 0.79 mg/l Intermittent release; Long term 2.75 mg/l STP; Long term 580 mg/l Sediment (Freshwater); Long term 3.6 mg/kg sediment dry weight Sediment (Marinewater); Long term 2.9 mg/kg sediment dry weight Soil; Long term 0.63 mg/kg soil dry weight

METHANOL (CAS: 67-56-1)

DNEL	Workers - Inhalation; Long term systemic effects: 260 mg/m ³ Workers - Inhalation; Short term systemic effects: 260 mg/m ³ Workers - Inhalation; Long term local effects: 260 mg/m ³ Workers - Inhalation; Short term local effects: 260 mg/m ³ Workers - Dermal; Long term systemic effects: 40 mg/kg bw/day General population - Inhalation; Long term systemic effects: 50 mg/m ³ General population - Inhalation; Short term systemic effects: 50 mg/m ³ General population - Inhalation; Long term local effects: 50 mg/m ³ General population - Inhalation; Short term local effects: 50 mg/m ³ General population - Dermal; Long term systemic effects: 8 mg/kg bw/day General population - Dermal; Short term systemic effects: 8 mg/kg bw/day General population - Oral; Long term systemic effects: 8 mg/kg bw/day General population - Oral; Short term systemic effects: 8 mg/kg bw/day
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PNEC Fresh water; 20.8 mg/l
 marine water; 2.08 mg/l
 STP; 100 mg/l
 Intermittent release; 1540 mg/l
 Sediment (Freshwater); 77 mg/kg sediment dry weight
 Sediment (Marinewater); 7.7 mg/kg sediment dry weight
 Soil; 100 mg/kg soil dry weight

PROPAN-2-OL (CAS: 67-63-0)

DNEL Workers - Inhalation; Long term systemic effects: 500 mg/m³
 Workers - Dermal; Long term systemic effects: 888 mg/kg/day
 General population - Inhalation; Long term systemic effects: 89 mg/m³
 General population - Dermal; Long term systemic effects: 319 mg/kg/day
 General population - Oral; Long term systemic effects: 26 mg/kg/day

PNEC Fresh water; Long term 140.9 mg/l
 marine water; Long term 140.9 mg/l
 Sediment (Freshwater); Long term 552 mg/kg sediment dry weight
 Sediment (Marinewater); Long term 552 mg/kg sediment dry weight
 Soil; Long term 28 mg/kg soil dry weight

Tetrasodium EDTA (CAS: 64-02-8)

DNEL Workers - Inhalation; Long term local effects: 1.5 mg/m³
 Workers - Inhalation; Short term local effects: 3 mg/m³
 General population - Inhalation; Long term local effects: 0.6 mg/m³
 General population - Inhalation; Short term local effects: 1.2 mg/m³
 General population - Oral; Long term systemic effects: 25 mg/kg/day

PNEC Fresh water; 2.2 mg/l
 Intermittent release; 1.2 mg/l
 marine water; 0.22 mg/l
 STP; 43 mg/l
 Soil; 0.72 mg/kg

ETHANEDIOL (CAS: 107-21-1)

DNEL Workers - Inhalation; Long term local effects: 35 mg/m³
 Workers - Dermal; Long term systemic effects: 106 mg/kg/day
 General population - Inhalation; Long term local effects: 7 mg/m³
 General population - Dermal; Long term systemic effects: 53 mg/kg/day

PNEC Fresh water; 10 mg/l
 marine water; 1 mg/l
 STP; 199.5 mg/l
 Sediment (Freshwater); 37 mg/kg
 Sediment (Marinewater); 3.7 mg/kg
 Soil; 1.53 mg/kg

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Workers - Inhalation; Long term local effects: 1 mg/m³
 General population - Dermal; Long term local effects: 1 mg/m³

Denatonium Benzoate (CAS: 3734-33-6)

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DNEL	Workers - Inhalation; Long term systemic effects: 4.99 mg/m ³ Workers - Dermal; Long term systemic effects: 1.43 mg/kg/day General population - Inhalation; Long term systemic effects: 0.768 mg/m ³ General population - Dermal; Long term systemic effects: 0.51 mg/kg/day General population - Oral; Long term systemic effects: 0.51 mg/kg/day
PNEC	Fresh water; 0.1 mg/l marine water; 10 µg/l Sediment (Freshwater); 25 mg/kg Sediment (Marinewater); 2.5 mg/kg Soil; 4.96 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

No specific ventilation requirements.

Eye/face protection

Wear chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.

Other skin and body protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

Wash hands after handling.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Blue.
Odour	Alcoholic.
pH	pH (concentrated solution): 10.54
Melting point	-10.18°C
Flash point	41°C Closed cup.
Relative density	0.98
Solubility(ies)	Miscible with water.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable under the prescribed storage conditions.

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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Avoid freezing.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is based on data of the components and of similar products.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 57,251.91

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (gases ppm) 133,587.79

ATE inhalation (vapours mg/l) 572.52

ATE inhalation (dusts/mists mg/l) 95.42

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

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Reproductive toxicity - development Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not relevant.

Ingestion May cause nausea, headache, dizziness and intoxication.

Skin contact May be slightly irritating to skin.

Eye contact May be slightly irritating to eyes.

Toxicological information on ingredients.

ETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,470.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 17,100.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 124.7

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

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Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

METHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 300.0

Species Human

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 300.0

Species Human

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV) 700.0

Acute toxicity inhalation (LC₅₀ vapours mg/l) 3.0

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 0.5

ATE inhalation (gases ppm) 700.0

ATE inhalation (vapours mg/l) 3.0

ATE inhalation (dusts/mists mg/l) 0.5

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 466 mg/kg bw/day, Oral, Rat
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No information available.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Central and/or peripheral nervous system damage. Eyes
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	LOAEL 2340 mg/kg, Oral, Monkey NOAEL 1.06 mg/l, Inhalation, Rat
Target organs	Central nervous system Eyes
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.
<u>Inhalation</u>	
Inhalation	Toxic by inhalation. Drowsiness. Dizziness.
<u>Ingestion</u>	
Ingestion	Toxic if swallowed. Unconsciousness, possibly death.
<u>Skin contact</u>	
Skin contact	Toxic in contact with skin.
<u>Eye contact</u>	
Eye contact	May cause temporary eye irritation.
<u>Target organs</u>	
Target organs	Kidneys Liver Heart and cardiovascular system
<u>Medical considerations</u>	
Medical considerations	Liver and/or kidney damage.

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,045.0

Species Rat

ATE oral (mg/kg) 5,045.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 12,800.0

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Species	Rabbit
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	20.0
Species	Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
<u>Carcinogenicity</u>	
Carcinogenicity	Does not contain any substances known to be carcinogenic.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Brain damage. Central and/or peripheral nervous system damage.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Tetrasodium EDTA

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ > 1780 - < 2000 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	No information available.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LOAEL 30 mg/m ³ , Inhalation, Rat

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Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility Multi-generation study - NOAEL 250 mg/kg/day, Oral, Rat F1, F2 Based on available data the classification criteria are not met.

Reproductive toxicity - development No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

Inhalation Harmful if inhaled.

Ingestion Harmful if swallowed.

Skin contact No adverse effects known.

Eye contact Causes serious eye damage.

ETHANEDIOL

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 3500 mg/kg, Dermal, Mouse

Acute toxicity - inhalation

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Notes (inhalation LC₅₀)	LC50 > 2.5 mg/l, Inhalation, Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	No evidence of carcinogenicity in animal studies. Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Three-generation study - NOAEL > 1000 mg/kg bw/day, Oral, Rat F2 Fertility - NOEL 1000 mg/kg bw/day, Oral, Mouse F1
Reproductive toxicity - development	No evidence of reproductive toxicity in animal studies.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Prolonged or repeated exposure may cause the following adverse effects: Liver and/or kidney damage.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.
<u>Inhalation</u>	
Inhalation	No specific health hazards known.
<u>Ingestion</u>	
Ingestion	Harmful if swallowed.
<u>Skin contact</u>	
Skin contact	May be slightly irritating to skin.
<u>Eye contact</u>	
Eye contact	May be slightly irritating to eyes.

SODIUM HYDROXIDE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	500.0
Species	Rat

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Notes (oral LD₅₀)	Not applicable. REACH dossier information.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Not applicable. REACH dossier information.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Not applicable. REACH dossier information.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Causes severe burns.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye damage.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Scientifically unjustified. REACH dossier information.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

Denatonium Benzoate

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ 749 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ > 2000 mg/kg, Dermal, Rat
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC50 0.2 mg/l, Inhalation, Rat
<u>Skin corrosion/irritation</u>	

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Skin corrosion/irritation	Causes skin irritation.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye damage.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 16 mg/kg/day, Oral, Rat No evidence of carcinogenicity in animal studies.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOAEL 60 mg/kg/day, Oral, Rat P, F1 No evidence of reproductive toxicity in animal studies.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

SECTION 12: Ecological information

Ecotoxicity Product classification: Based on available data, the classification criteria are not met.

12.1. Toxicity

Toxicity There is no data on the product itself, see ingredient-specific data below.

Ecological information on ingredients.

ETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 13000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 12340 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: 12900 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms EC₅₀, 4 hours: 5800 mg/l, Activated sludge

Chronic aquatic toxicity

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Chronic toxicity - fish early life stage NOEC, 24 days: 0.08 mg/l, Pimephales promelas (Fat-head Minnow)

Chronic toxicity - aquatic invertebrates NOEC, 10 days: 9.6 mg/l, Daphnia magna

METHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
NOEC, 200 hours: 15800 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 22000 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms IC₅₀, 3 hours: > 1000 mg/l,
IC₅₀, 15 hours: 20000 mg/l,

PROPAN-2-OL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: > 10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 7 days: 180 mg/l, Selenastrum capricornutum

Tetrasodium EDTA

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 41 - 2070 mg/l, Lepomis macrochirus (Bluegill)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants LC₅₀, 72 hours: > 300 mg/l, Algae

Acute toxicity - microorganisms EC₂₀, 30 minutes: > 500 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 35 days: > 25.7 mg/l, Brachydanio rerio (Zebra Fish)
Read-across data.

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 25 mg/l, Daphnia magna
Read-across data.

ETHANEDIOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 96 hours: 10940 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC ₂₀ , 30 minutes: 1995 mg/l, Activated sludge Read-across data.
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - fish early life stage	LC ₅₀ , 28 days: > 1500 mg/l, Menidia peninsulae (Tidewater silverside)
Chronic toxicity - aquatic invertebrates	EC ₅₀ , 21 days: > 100 mg/l, Daphnia magna

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 33-189 hours: 96 mg/l, Fish LC ₅₀ , 45.5 hours: 96 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 30 - < 1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	Scientifically unjustified.
Acute toxicity - microorganisms	EC ₁₀ , 2 minutes: 161 mg/l, Tetrahymena Thermophila EC ₅₀ , 15 minutes: 22 mg/l, Photobacterium phosphoreum luminescence inhibition study
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - fish early life stage	Not available.
Short term toxicity - embryo and sac fry stages	Not available.
Chronic toxicity - aquatic invertebrates	Not applicable.

Denatonium Benzoate

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: > 100 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 281.556 mg/l, Chlorella vulgaris
Acute toxicity - microorganisms	EC ₅₀ , 15 minutes: 511.58 mg/l, Vibrio fischeri

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

Ecological information on ingredients.

Holts -10 Blue Screenwash

ETHANOL

Persistence and degradability	Rapidly degradable
Biological oxygen demand	1000 mg/g
Chemical oxygen demand	1900 mg/g

METHANOL

Persistence and degradability	Rapidly degradable 71.5% 5 days 95% 20 days
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PROPAN-2-OL

Persistence and degradability	Rapidly degradable
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Tetrasodium EDTA

Persistence and degradability	Not readily biodegradable.
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ETHANEDIOL

Persistence and degradability	10 days 90-100% Rapidly degradable
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SODIUM HYDROXIDE

Persistence and degradability	No data available.
Stability (hydrolysis)	Scientifically unjustified. REACH dossier information.

Denatonium Benzoate

Persistence and degradability	Not readily biodegradable.
Stability (hydrolysis)	pH4, pH7, pH9 - Degradation 10%: ~ 5 days @ 50°C pH 5, pH7, pH9 - Degradation 10%: ~ 5 days @ 25°C pH 5 -10 - Half-life : ~ 1 year @ 25-50°C

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

ETHANOL

Partition coefficient	log Pow: -0.35
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METHANOL

Bioaccumulative potential The product is not bioaccumulating.

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Partition coefficient log Pow: - 0.82 log Pow: - 0.66

PROPAN-2-OL

Bioaccumulative potential No potential for bioaccumulation.

Partition coefficient log Pow: 0.05

Tetrasodium EDTA

Bioaccumulative potential Bioaccumulation is unlikely.

ETHANEDIOL

Partition coefficient log Pow: -1.36 QSAR data.

SODIUM HYDROXIDE

Bioaccumulative potential No potential for bioaccumulation.

Partition coefficient No information required. REACH dossier information.

12.4. Mobility in soil

Mobility The product contains substances which are water-soluble and may spread in water systems.

Ecological information on ingredients.

ETHANOL

Mobility Mobile.

Henry's law constant 3.3 x 10E-6 atm m³/mol @ °C

Surface tension 24.5 mN/m @ 20°C

PROPAN-2-OL

Mobility Mobile.

Surface tension 22.7 mN/m @ 20°C

Denatonium Benzoate

Adsorption/desorption coefficient Soil - Koc: 2466.04 @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

METHANOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

PROPAN-2-OL

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Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

Tetrasodium EDTA

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

ETHANEDIOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

SODIUM HYDROXIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

Denatonium Benzoate

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1987

UN No. (IMDG) 1987

UN No. (ICAO) 1987

UN No. (ADN) 1987

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ALCOHOLS, N.O.S. (CONTAINS ETHANOL, METHANOL)

Proper shipping name (IMDG) ALCOHOLS, N.O.S. (CONTAINS ETHANOL, METHANOL)

Proper shipping name (ICAO) ALCOHOLS, N.O.S. (CONTAINS ETHANOL, METHANOL)

Proper shipping name (ADN) ALCOHOLS, N.O.S. (CONTAINS ETHANOL, METHANOL)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

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IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
Authorisations (SI 2020 No. 1577 Annex XIV)	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet	<p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>GHS: Globally Harmonized System.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>UVCB - Unknown or variable composition, complex reaction products or Biological materials.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Classification procedures according to SI 2019 No. 720	Flam. Liq. 3 - H226: Calculation method.
Training advice	Chemical hazard awareness training, including labelling, Safety Data Sheets, Personal Protective Equipment (PPE) and hygiene as relevant for the target audience.
Issued by	Regulatory Specialist
Revision date	26/08/2021
Revision	4
Supersedes date	13/11/2020
SDS number	21427
Hazard statements in full	<p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H301 Toxic if swallowed.</p> <p>H302 Harmful if swallowed.</p> <p>H311 Toxic in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H331 Toxic if inhaled.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.</p> <p>H370 Causes damage to organs (Central nervous system, Optic nerve (nervus opticus)) if swallowed or in contact with skin.</p>