SAFETY DATA SHEET
Alcohol Based Hand Sanitizer
According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name Alcohol Based Hand Sanitizer

Product number ACF-07441

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

Identified uses Hand Sanitizer.

1.3. Details of the supplier of the safety data sheet

Supplier

Airedale Chemical Company Limited
Airedale Mills
Skipton Road
Cross Hills
Keighley
West Yorkshire
BD20 7BX
+44 (0) 1535 637876 (Mon - Fri, 08:00 - 17:00 UK time only)
+44 (0) 1535 630740
sds@airedalechemical.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1535 637876 (Mon - Fri, 08:00 - 17:00 UK time only)

National emergency telephone number National Poisons Information Service

For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)

If you are a healthcare professional with an enquiry please visit www.TOXBASE.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms

Alcohol Based Hand Sanitizer

Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P243 Take action to prevent static discharges. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool.
Supplementary precautionary statements	P233 Keep container tightly closed. P242 Use non-sparking tools. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ethanol **75 -85%**

CAS number: 64-17-5 EC number: 200-578-6 REACH registration number: 01-2119457610-43-XXXX

Classification
Flam. Liq. 2 - H225

Glycerol **1-5%**

CAS number: 56-81-5 EC number: 200-289-5

Classification
Not Classified

hydrogen peroxide solution **<0.5**

CAS number: 7722-84-1 EC number: 231-765-0 REACH registration number: 01-2119485845-22-XXXX

Classification
Ox. Liq. 1 - H271
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Skin Corr. 1A - H314
Eye Dam. 1 - H318
STOT SE 3 - H335
Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments All percentages displayed expressed as volume/volume.

SECTION 4: First aid measures

Alcohol Based Hand Sanitizer

4.1. Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical advice/attention if you feel unwell.

Skin contact Rinse with water.

Eye contact Rinse with water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if any discomfort continues.

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

General information May cause irritation. Dizziness. Nausea, vomiting.

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

Notes for the doctor No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Flammable liquid and vapour. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. Do not allow material to enter confined spaces, due to the risk of explosion. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

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. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.

6.2. Environmental precautions

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Environmental precautions Do not allow material to enter confined spaces, due to the risk of explosion. 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 Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Contain and absorb spillage with sand, earth or other non-combustible material. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Vapours may form explosive mixtures with air. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

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

Glycerol

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

hydrogen peroxide solution

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1.4 mg/m³
Short-term exposure limit (15-minute): WEL 2 ppm 2.8 mg/m³
WEL = Workplace Exposure Limit

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ethanol (CAS: 64-17-5)

DNEL

Industry - Inhalation; Short term local effects: 1900 mg/m³
Industry - Inhalation; Long term systemic effects: 950 mg/m³
Industry - Dermal; Long term systemic effects: 343 mg/kg/day
Consumer - Inhalation; Short term local effects: 950 mg/m³
Consumer - Inhalation; Long term systemic effects: 114 mg/m³
Consumer - Dermal; Long term systemic effects: 206 mg/kg/day
Consumer - Oral; Long term systemic effects: 87 mg/kg/day

PNEC

- Fresh water; 960 µg/l
- marine water; 790 µg/l
- STP; 580 mg/l
- Sediment (Freshwater); 3.6 mg/kg
- Sediment (Marinewater); 2.9 mg/kg
- Soil; 0.63 mg/kg

Glycerol (CAS: 56-81-5)

DNEL

Workers - Inhalation; Long term local effects: 56 mg/m³
General population - Inhalation; Long term local effects: 33 mg/m³
General population - Oral; Long term systemic effects: 229 mg/kg

PNEC

- Fresh water; 0.885 mg/l
- marine water; 0.0885 mg/l
- Intermittent release; 8.85 mg/l
- Sediment (Freshwater); 3.3 mg/kg
- Sediment (Marinewater); 0.33 mg/kg
- Soil; 0.141 mg/kg
- STP; 1000 mg/l

hydrogen peroxide solution (CAS: 7722-84-1)

DNEL

Workers - Inhalation; Short term local effects: 3 mg/m³
Workers - Inhalation; Long term local effects: 1.4 mg/m³
Consumer - Inhalation; Short term local effects: 1.93 mg/m³
Consumer - Inhalation; Long term local effects: 0.21 mg/m³

PNEC

- Fresh water; 0.0126 mg/l
- marine water; 0.0126 mg/l
- Soil; 0.0023 mg/kg
- STP; 4.66 mg/l
- Sediment (Freshwater); 0.047 mg/kg
- Sediment (Marinewater); 0.047 mg/kg
- Intermittent release; 0.0138 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

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Eye/face protection	Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	Alcoholic.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	~ 20°C Not specified. Data taken from tables.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	Not considered to be explosive.

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Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Vapours may form explosive mixtures with air.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react strongly with the product: Oxidising agents. Strong acids.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.

10.5. Incompatible materials

Materials to avoid Oxidising materials. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information on ingredients.

ethanol

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	10,470.0
Species	Rat
ATE oral (mg/kg)	10,470.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	116.9
Species	Rat
ATE inhalation (vapours mg/l)	116.9

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation	Not irritating.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative.
Genotoxicity - in vivo	Chromosome aberration: Inconclusive.
Carcinogenicity	
Carcinogenicity	NOAEL >3000 mg/kg, Oral, Rat
Reproductive toxicity	
Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies.
Specific target organ toxicity - single exposure	
STOT - single exposure	Data lacking.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Conclusive data but not sufficient for classification.
Aspiration hazard	
Aspiration hazard	Conclusive data but not sufficient for classification.

Glycerol

Toxicological effects	Not regarded as a health hazard under current legislation.
Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	11,500.0
Species	Guinea pig
Notes (oral LD_{50})	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	11,500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	56,750.0
Species	Guinea pig
Notes (dermal LD_{50})	Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	56,750.0
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Skin corrosion/irritation	Not irritating.
Serious eye damage/irritation	

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Serious eye damage/irritation	Not irritating.
Respiratory sensitisation	
Respiratory sensitisation	Not determined.
Skin sensitisation	
Skin sensitisation	Not determined.
Germ cell mutagenicity	
Genotoxicity - in vitro	Negative.
Carcinogenicity	
Carcinogenicity	Conclusive data but not sufficient for classification.
Reproductive toxicity	
Reproductive toxicity - fertility	Conclusive data but not sufficient for classification.
Reproductive toxicity - development	Conclusive data but not sufficient for classification.
Specific target organ toxicity - single exposure	
STOT - single exposure	Conclusive data but not sufficient for classification.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Conclusive data but not sufficient for classification.
Aspiration hazard	
Aspiration hazard	Conclusive data but not sufficient for classification.

hydrogen peroxide solution

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	602.0
Species	Rat
ATE oral (mg/kg)	602.0
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rabbit
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	11.0
Skin corrosion/irritation	
Skin corrosion/irritation	Corrosive to skin. Causes severe burns.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye damage.
Respiratory sensitisation	

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Respiratory sensitisation	No data available.

Skin sensitisation

Skin sensitisation	Conclusive data but not sufficient for classification.

Germ cell mutagenicity

Genotoxicity - in vitro	Conclusive data but not sufficient for classification.
Genotoxicity - in vivo	Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity	Conclusive data but not sufficient for classification.

Reproductive toxicity

Reproductive toxicity - fertility	Conclusive data but not sufficient for classification.
Reproductive toxicity - development	Conclusive data but not sufficient for classification.

Specific target organ toxicity - single exposure

STOT - single exposure	STOT SE 3 - H335 Respiratory system irritation.
Target organs	Respiratory tract

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Conclusive data but not sufficient for classification. LOAEL 0.0029 mg/l, Inhalation, Rat NOAEL 26 mg/kg/day, Oral, Rat

Aspiration hazard

Aspiration hazard	No data available.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Summary Not available.

Ecological information on ingredients.

ethanol

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hour: 5012 mg/l, Ceriodaphnia dubia.
Acute toxicity - aquatic plants	EC_{50}, 72 hour: 275 mg/l, Chlorella vulgaris.

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 9 day: 9.6 mg/l, Daphnia magna

Glycerol

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

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Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 885 mg/l, Pimephales promelas (Fat-head Minnow) LC_{50}, 96 hour: 54000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hour: 1955 mg/l, Daphnia magna

hydrogen peroxide solution

Toxicity	Aquatic Chronic 3 - H412

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 16.4 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hour: 2.4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC50, 72 hour: 1.38 mg/l, skeletonema costatum
Acute toxicity - microorganisms	EC_{50}, 0.5 hour: 466 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 21 day: 0.63 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product contains inorganic substances which are not biodegradable. The other substances in the product are expected to be readily biodegradable.

Ecological information on ingredients.

ethanol

Persistence and degradability	The substance is readily biodegradable.

Glycerol

Persistence and degradability	The product is readily biodegradable.

hydrogen peroxide solution

Persistence and degradability	Substance is inorganic.

12.3. Bioaccumulative potential

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

Partition coefficient Not applicable.

Ecological information on ingredients.

ethanol

Bioaccumulative potential	Bioaccumulation is unlikely.

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Partition coefficient log Kow: -0.31

Glycerol

Partition coefficient log Pow: -1.75

hydrogen peroxide solution

Partition coefficient Kow: -1.57 Calculation method.

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

ethanol

Mobility Soluble in water.

Glycerol

Mobility The product is water-soluble and may spread in water systems.

hydrogen peroxide solution

Henry's law constant 0.001 Pa m³/mol @ 20°C

Surface tension 80.4 mN/m @ 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.

ethanol

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

Glycerol

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

hydrogen peroxide solution

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

12.6. Other adverse effects

Other adverse effects Not known.

Ecological information on ingredients.

Glycerol

Other adverse effects None known.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN No. (ADN) 1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID) FLAMMABLE LIQUID, N.O.S. (CONTAINS ethanol)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (CONTAINS ethanol)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (CONTAINS ethanol)

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (CONTAINS ethanol)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels

14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
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	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances.
Seveso Directive - Control of major accident hazards	P5c Lower-tier 5000 tonnes Upper-tier 50000 tonnes.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Alcohol Based Hand Sanitizer

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC_{50}: Lethal Concentration to 50 % of a test population. LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose). EC_{50}: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
Classification abbreviations and acronyms	Flam. Liq. = Flammable liquid
Classification procedures according to Regulation (EC) 1272/2008	Flam. Liq. 2 - H225: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	25/03/2020
Revision	1
SDS number	7441
Hazard statements in full	H225 Highly flammable liquid and vapour. H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.