

Libra

Speciality Chemicals

SAFETY DATA SHEET
Libra Hand Cleansing Gel – 70% Ethanol**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** Libra Hand Cleansing Gel – 70% Ethanol**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hand Cleanser**Uses advised against** Use only for intended applications.**1.3. Details of the supplier of the safety data sheet****Supplier** Libra Speciality Chemicals Ltd
Brinell Drive,
Northbank Industrial Park,
Irlam,
Manchester,
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product.safety@librachem.co.uk**1.4. Emergency telephone number****Emergency telephone** +44 (0) 161 7751888 (Office hours only)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (EC 1272/2008)****Physical hazards** Flam. Liq. 2 - H225**Health hazards** Eye Irrit. 2 - H319**Environmental hazards** Not Classified**2.2. Label elements****Hazard pictograms****Signal word** Danger**Hazard statements** H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P243 Take action to prevent static discharges.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p>
Supplementary precautionary statements	<p>P242 Use non-sparking tools.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ethanol		60-100%
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
Classification		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		
Glycerol		<1%
CAS number: 56-81-5	EC number: 200-289-5	
Classification		
Not Classified		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Rinse immediately with plenty of water. If in doubt, get medical attention promptly. Get medical attention if any discomfort continues. Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel. First aid personnel should wear appropriate protective equipment during any rescue. Treat symptomatically.
Inhalation	Unlikely route of exposure as the product does not contain volatile substances. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Ingestion	IF SWALLOWED: Get medical attention immediately. Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. Show this Safety Data Sheet to the medical personnel.
Skin contact	No specific recommendations.

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Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention. If in doubt, get medical attention promptly. Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

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

General information	Treat symptomatically. See Section 11 for additional information on health hazards.
Inhalation	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.
Ingestion	Harmful if swallowed. May cause discomfort.
Skin contact	No adverse effects known.
Eye contact	Symptoms following overexposure may include the following: Profuse watering of the eyes. Irritation and redness, followed by blurred vision. Irritation of eyes and mucous membranes. Visual disturbances, including blurred vision.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Highly flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. May explode when heated or when exposed to flames or sparks. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Containers can burst violently or explode when heated, due to excessive pressure build-up. Irritating gases or vapours.
Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Nitrous gases (NO _x).

5.3. Advice for firefighters

Protective actions during firefighting	In case of fire: Evacuate area. Stop leak if safe to do so. If leakage cannot be stopped, evacuate area. Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Wear chemical protective suit. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions

Ensure procedures and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Wear protective clothing as described in Section 8 of this safety data sheet. Take care as floors and other surfaces may become slippery. Do not handle broken packages without protective equipment. Treat the spilled material according to the instructions in the clean-up section. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions No negative effects on the aquatic environment are known.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Stop leak if safe to do so. To prevent release, place container with damaged side up. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Large Spillages: Contain spillage with sand, earth or other suitable non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

For use in industrial installations or professional treatment only. Acquisition, possession or use by the general public is restricted. Do not handle until all safety precautions have been read and understood. Wear protective clothing, gloves, eye and face protection. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Contaminated work clothing should not be allowed out of the workplace.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Refer to the "storage and shelf life information" in the product specification for storage advice. Store in accordance with local regulations. Keep containers upright. Protect from freezing and direct sunlight. Keep away from food, drink and animal feeding stuffs.

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

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No data available.

Ethanol

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

WEL = Workplace Exposure Limit

Ethanol (CAS: 64-17-5)

DNEL	Workers - Inhalation; Short term local effects: 1900 mg/m ³ Workers - Dermal; Long term systemic effects: 343 mg/kg Workers - Inhalation; Long term systemic effects: 950 mg/m ³ Consumer - Inhalation; Short term local effects: 950 mg/m ³ Consumer - Dermal; Long term systemic effects: 206 mg/kg Consumer - Inhalation; Long term systemic effects: 114 mg/kg Consumer - Oral; Long term systemic effects: 87 mg/kg
PNEC	Fresh water; 0.96 mg/l marine water; 0.79 mg/l Sediment (Freshwater); 3.6 mg/kg Soil; 0.63 mg/kg STP; 580 mg/l

Glycerol (CAS: 56-81-5)

DNEL	Industry - Inhalation; Long term local effects: 56 mg/m ³
PNEC	Fresh water; 0.885 mg/l marine water; 0.0885 mg/l Intermittent release; 8.85 mg/l STP; 1000 mg/l Soil; 0.141 mg/kg Sediment (Freshwater); 3.3 mg/kg Sediment (Marinewater); 0.33 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Use approved respirator if air contamination is above an acceptable level. Observe any occupational exposure limits for the product or ingredients.

Personal protection

The following recommendations are made based on information available for the major chemical component.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Contact lenses should not be worn when working with this chemical.

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Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. When used with mixtures, the protection time of gloves cannot be accurately estimated. The breakthrough time for any glove material may be different for different glove manufacturers. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station and safety shower.
Hygiene measures	Good personal hygiene procedures should be implemented. Wash promptly if skin becomes contaminated. Remove contaminated clothing and protective equipment before entering eating areas. Change work clothing daily before leaving workplace. Contaminated work clothing should not be allowed out of the workplace. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Seek advice from supervisor on the company's respiratory protection standards.
Thermal hazards	No specific requirements are anticipated under normal conditions of use.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Gel.
Colour	Colourless
Odour	Alcoholic.
Odour threshold	Not available.
pH	pH (concentrated solution): 7-8
Melting point	Not available.
Initial boiling point and range	>75°C
Flash point	13°C Closed cup.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.

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Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.82 @ 25°C
Bulk density	Not available.
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	8700 cPs @ 25°C
Explosive properties	Not available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients. Flammable/combustible materials.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Contents may develop pressure upon prolonged storage. Refer to the "storage and shelf life information" in the product specification for storage advice.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur. Flammable/combustible materials.

10.4. Conditions to avoid

Conditions to avoid Avoid freezing. Avoid exposure to high temperatures or direct sunlight. Heating may cause a fire or explosion. Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. Avoid the accumulation of vapours in low or confined areas. Containers can burst violently or explode when heated, due to excessive pressure build-up. Refer to the "storage and shelf life information" in the product specification for storage advice.

10.5. Incompatible materials

Materials to avoid No specific requirements are anticipated under normal conditions of use. Strong acids. Strong alkalis.

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10.6. Hazardous decomposition products

Hazardous decomposition products Heating may generate the following products: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x). Contents may develop pressure upon prolonged storage.

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.

Acute toxicity - inhalation

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

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

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.

Genotoxicity - in vivo 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.

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

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 anticipated to present an aspiration hazard, based on chemical structure.

Toxicological information on ingredients.

Ethanol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

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Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LD₅₀ >20 mg/l, Inhalation, Vapour, Rat

Skin corrosion/irritation

Animal data Rabbit Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Rabbit Causes eye irritation.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro : Negative.

Genotoxicity - in vivo :

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

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.

SECTION 12: Ecological information

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

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

Ecological information on ingredients.

Ethanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 days: 15300 mg/l, Pimephales promelas (Fat-head Minnow)
LC₅₀, 24 hours: 11200 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 858 mg/l, Artemia salina (Brine shrimp)
EC₅₀, 48 hours: 858 mg/l, Daphnia magna
LC₅₀, 48 hours: 5012 mg/l, Ceriodaphnia dubia (Water flea)

Acute toxicity - aquatic plants EC₅₀, 72 hours: 275 mg/l, Chlorella vulgaris
EC₁₀, 72 hours: 11.5 mg/l, Chlorella vulgaris

Acute toxicity - microorganisms EC₅₀, 4 hours: 5800 mg/l, Paramecium caudatum

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Glycerol

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 54000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: >10000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >2900 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC ₅₀ , : >1000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

Ethanol

Biodegradation	- Degradation 84: 20 days The substance is readily biodegradable.
Biological oxygen demand	100 mg/g
Chemical oxygen demand	1900 mg/g

Glycerol

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	- Degradation 82%: 20 days
Biological oxygen demand	0.87 g O ₂ /g substance

12.3. Bioaccumulative potential

Partition coefficient Not available.

Ecological information on ingredients.

Ethanol

Bioaccumulative potential	BCF: 0.66, Bioaccumulation is unlikely.
Partition coefficient	log Kow: -0.3

12.4. Mobility in soil

Mobility No data available.

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.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

General information

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. Waste is classified as hazardous waste. This material and its container must be disposed of as hazardous waste. The generation of waste should be minimised or avoided wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. 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 codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Disposal methods

Waste is classified as hazardous waste. The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Collect and place in suitable waste disposal containers and seal securely. Empty containers must not be punctured or incinerated because of the risk of an explosion. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. This material and its container must be disposed of as hazardous waste.

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. (ETHANOL)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (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

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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

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005 Workplace exposure limits. Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended). 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). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended). 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.
Guidance	Workplace Exposure Limits EH40.
Restrictions (Annex XVII Regulation 1907/2006)	This product contain no substances (≥ 0.1 % w/w) of very high concern (SVHC).

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Recommendation on the definition of nanomaterial (2011/696/EU)

This product does not contain nanomaterial.

Pesticides (EC 1107/2009) / (EU) 528/2012) Biocidal Products Regulation (BPR)

Does not contain substances regulated as biocides. Does not contain substances regulated as pesticides.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 GHS: Globally Harmonized System.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 UVCB - Unknown or variable composition, complex reaction products or Biological materials.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 SVHC: Substances of Very High Concern.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 UN: United Nations.
 IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

Classification abbreviations and acronyms

Skin Irrit. = Skin irritation
 Eye Irrit. = Eye irritation

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

09/04/2020

Revision

1

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SDS number	850
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

The above information is believed to be correct to the best of our knowledge and belief at the date of its publication but does not purport to be all inclusive and shall be used only as a guidance for safe use, storage, handling, transportation and disposal. Although certain hazards are detailed in this document, we cannot guarantee that these are the only hazards that exist. The information mentioned on Safety Data Sheet relates to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Material should be also handled only by those who have been fully trained in safety and chemical handling procedures. Libra Speciality Chemicals Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.