## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 08/01/2019 Revision date: 25/05/2022 Supersedes version of: 19/07/2019 Version: 2.0

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

## 1.1. Product identifier

Product form : Mixture
Product name : TECHNO LGE
Product code : 306111
Type of product
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Professional use, Consumer use

## 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

**IPC** 

10 Quai Malbert, 29200, BREST, FRANCE.

Tel.: +33 (0)2 98 43 45 44. Fax: +33 (0)2 98 44 22 53

ipc@groupe-ipc.com

## 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Llandough	0344 892 0111	Only for healthcare professionals

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour.

## 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

Signal word (CLP) : Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P501 - Dispose of container to Collection point.

Child-resistant fastening : Not applicable Tactile warning : Not applicable

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 64-17-5 EC-No.: 200-578-6 REACH-no: 01-2119457610- 43	25 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319
propan-2-ol, isopropyl alcohol, isopropanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558- 25	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
butanone, ethyl methyl ketone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066

Specific concentration limits:					
Name Product identifier Specific concentration limits					
Ethanol CAS-No.: 64-17-5 EC-No.: 200-578-6 REACH-no: 01-2119457610- 43		( 50 ≤C < 100) Eye Irrit. 2, H319			

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

#### SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof

equipment. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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# 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

United Kingdom - Occupational Exposure Limits         Propan2-ol           WEL TWA (OEL TWA) [1]         999 mg/m²           WEL STEL (OEL STEL)         400 ppm           WEL STEL (OEL STEL) [ppm]         500 ppm           Regulatory reference         1840/2005 (Fourth edition, 2020), HSE           DUIL TO THE RESTRICT OF THE REST	propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)					
WEL TWA (OEL TWA) [1]         999 mg/m³           WEL STEL (OEL STEL)         400 ppm           WEL STEL (OEL STEL) [ppm]         500 ppm           Regulatory reference         EH402005 (Fourth edition, 2020). HSE           butanone, ethyl methyl kotone (78-93-3)           EU - Indicative Occupational Exposure Limit (IOEL TWA)           Local name         Butanone           IOEL TWA         600 mg/m²           IOEL STEL [ppm]         900 ppm           IOEL STEL [ppm]         900 ppm           Regulatory reference         COMMISSION DIRECTIVE 2000/39/EC           United Kingdom - Occupational Exposure Limit         United Kingdom - Occupational Exposure Limit           United Kingdom - Occupational Exposure Limit         United Kingdom - Occupational Exposure Limit           United Kingdom - Occupational Exposure Limit         United Kingdom - Occupational Exposure Limit           United Kingdom - Occupational Exposure Limit         United Kingdom - Occupational Exposure Limit           WEL TWA (OEL TWA) [1]         600 mg/m²           WEL TWA (OEL TWA) [2]         200 ppm           WEL STEL (OEL STEL)         899 mg/m²           WEL STEL (OEL STEL) [ppm]         300 ppm           Regulatory reference         EH40/2005 (Fourth edition, 2020): HSE           United Kingdom - Biological l	United Kingdom - Occupational Exposure Limits					
WEL TWA (OEL TWA) [2]         400 ppm           WEL STEL (OEL STEL)         1250 mg/m²           WEL STEL (OEL STEL) [ppm]         500 ppm           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           butarone, ethyl methyl ketone (78-93-3)           EU - Indicative Occupational Exposure Limit (IOEU)           Local name           Butanone           OBL TWA         600 mg/m³           IOEL TWA [ppm]         200 ppm           IOEL STEL         900 mg/m³           IOEL STEL [ppm]         300 ppm           Regulatory reference         COMMISSION DIRECTIVE 2000/39/EC           United Kingdom - Occupational Exposure Limits           Local name         Butan-2-one (methyl ethyl ketone)           WEL TWA (OEL TWA) [1]         600 mg/m³           WEL STEL (DEL TWA) [2]         200 ppm           WEL STEL (OEL STEL) [ppm]         300 ppm           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           United Kingdom - Biological limit values           United Kingdom - Biological limit values           United Kingdom - Biological limit values           Ethanol (64-17-5)           United Kingdom - Occupational Exposure Limits <td colspan="3">Local name Propan-2-ol</td>	Local name Propan-2-ol					
WEL STEL (OEL STEL) [ppm]         1250 mg/m²           WEL STEL (OEL STEL) [ppm]         500 ppm           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           butanone, ethyl methyl ketone (78-93-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Butanone           106L TWA           107 mg/m²           108 mg/m²           109 mg/m²           1	WEL TWA (OEL TWA) [1]	999 mg/m³				
WEL STEL (DEL STEL) (ppm)         500 ppm           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           butarnone, ethyl methyl ketone (78-93-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Butanone           IOEL TWA         600 mg/m²           IOEL TWA (ppm)         200 ppm           IOEL STEL         900 mg/m²           IOEL STEL (ppm)         300 ppm           Regulatory reference         COMMISSION DIRECTIVE 2000/39/EC           United Kingdom - Occupational Exposure Limits         Local name           WEL TWA (OEL TWA) [1]         600 mg/m²           WEL TWA (OEL TWA) [2]         200 ppm           WEL STEL (OEL STEL)         899 mg/m²           WEL STEL (OEL STEL) [ppm]         300 ppm           Regulatory reference         EM40/2005 (Fourth edition, 2020). HSE           United Kingdom - Biological limit values         EM40/2005 (Fourth edition, 2020). HSE           United Kingdom - Biological limit value         EM40/2005 (Fourth edition, 2020). HSE           Ethanol (64-17-6)         EH40/2005 (Fourth edition, 2020). HSE           Ethanol (64-17-6)         EM50/200 (Fourth edition, 2020). HSE           Ethanol (64-17-6)         Ethanol (64-17-6)           United Kingdom - Occupational Exposure Lim	WEL TWA (OEL TWA) [2]	400 ppm				
Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           butanone, ethyl methyl ketone (78-93-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Butanone           IOEL TWA         600 mg/m³           IOEL TWA (ppm]         200 ppm           IOEL STEL         990 mg/m³           IOEL STEL (ppm]         300 ppm           Regulatory reference         COMMISSION DIRECTIVE 2000/39/EC           United Kingdom - Occupational Exposure Limits           Local name         Butan-2-one (methyl ethyl ketone)           WEL TWA (OEL TWA) [1]         600 mg/m³           WEL TWA (OEL STELL)         899 mg/m³           WEL STEL (OEL STELL) [ppm]         300 ppm           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           United Kingdom - Biological limit values           Local name         Butan-2-one (methyl ethyl ketone)           BMGV         70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           Ethanol (64-17-5)         Ethanol (64-17-5)           United Kingdom - Occupational Exposure Limits         Local name         Ethanol (64-17-6)	WEL STEL (OEL STEL)	1250 mg/m³				
butanone, ethyl methyl ketone (78-93-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Butanone           IOEL TWA         600 mg/m³           IOEL TWA [ppm]         200 ppm           IOEL STEL         900 mg/m³           IOEL STEL [ppm]         300 ppm           Regulatory reference         COMMISSION DIRECTIVE 2000/39/EC           United Kingdom - Occupational Exposure Limits           Local name         Butan-2-one (methyl ethyl ketone)           WEL TWA (OEL TWA) [1]         600 mg/m³           WEL TWA (OEL TWA) [2]         200 ppm           WEL STEL (OEL STEL)         899 mg/m³           WEL STEL (OEL STEL) [ppm]         300 ppm           Remark         300 ppm           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           United Kingdom - Biological limit values           Local name         Butan-2-one (methyl ethyl ketone)           BMGV         70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift           Regulatory reference         EH40/2005 (Fourth edition, 2020). HSE           Ethanol (64-17-5)           United Kingdom - Occupational Exposure Limits           United Kingdom - Occupational Exposure Limits <t< td=""><td>WEL STEL (OEL STEL) [ppm]</td><td>500 ppm</td></t<>	WEL STEL (OEL STEL) [ppm]	500 ppm				
EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Butanone  IOEL TWA  BOW mg/m³  IOEL TWA [ppm]  IOEL STEL  BOW mg/m³  IOEL STEL  BOW mg/m³  IOEL STEL [ppm]  Regulatory reference  COMMISSION DIRECTIVE 2000/39/EC  United Kingdom - Occupational Exposure Limits  Local name  Butan-2-one (methyl ethyl ketone)  WEL TWA (OEL TWA) [2]  WEL STEL (DEL STEL)  B99 mg/m³  WEL STEL (OEL STEL)  B99 mg/m³  WEL STEL (OEL STEL)  WEL STEL (OEL STEL)  B99 mg/m³  WEL STEL (OEL STEL) [ppm]  Remark  Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference  United Kingdom - Biological limit values  Local name  BMGV  Regulatory reference  EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name  Ethanol  Ethanol  WEL TWA) (OEL TWA) [1]  BIASON  Ethanol  Ethanol  Ethanol	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE				
Local name     Butanone       IOEL TWA     600 mg/m³       IOEL TWA [ppm]     200 ppm       IOEL STEL     900 mg/m³       IOEL STEL [ppm]     300 ppm       Regulatory reference     COMMISSION DIRECTIVE 2000/39/EC       United Kingdom - Occupational Exposure Limits       Local name     Butan-2-one (methyl ethyl ketone)       WEL TWA (OEL TWA) [1]     600 mg/m³       WEL TWA (OEL TWA) [2]     200 ppm       WEL STEL (OEL STEL)     899 mg/m³       WEL STEL (OEL STEL) [ppm]     300 ppm       Remark     Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)       Regulatory reference     EH40/2005 (Fourth edition, 2020). HSE       United Kingdom - Biological limit values       Local name     Butan-2-one (methyl ethyl ketone)       BMGV     70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift       Regulatory reference     EH40/2005 (Fourth edition, 2020). HSE       Ethanol (64-17-5)     United Kingdom - Occupational Exposure Limits       Local name     Ethanol       WEL TWA (OEL TWA) [1]     1920 mg/m²	butanone, ethyl methyl ketone (78-93-3)					
ICEL TWA  ICEL TWA [ppm]  ICEL STEL  POO mg/m³  ICEL STEL [ppm]  Regulatory reference  COMMISSION DIRECTIVE 2000/39/EC  United Kingdom - Occupational Exposure Limits  WEL TWA (OEL TWA) [1]  RUEL TWA (OEL TWA) [2]  RUEL STEL (OEL STEL)  RUEL STEL (OEL STEL)  RUEL STEL (OEL STEL)  Regulatory reference  EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  United Kingdom - Biological limit values  EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  United Kingdom - Occupational Exposure Limits	EU - Indicative Occupational Exposure Limit (IOEL)					
IOEL TWA [ppm]   200 ppm     IOEL STEL   900 mg/m³   300 ppm     Regulatory reference	Local name	Butanone				
IOEL STEL pm] 300 mg/m³  Regulatory reference COMMISSION DIRECTIVE 2000/39/EC  United Kingdom - Occupational Exposure Limits  Local name Butan-2-one (methyl ethyl ketone)  WEL TWA (OEL TWA) [1] 600 mg/m³  WEL TWA (OEL TWA) [2] 200 ppm  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) 899 mg/m³  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  Ethanol  WEL TWA) [1] 1920 mg/m³	IOEL TWA	600 mg/m³				
IOEL STEL [ppm] 300 ppm Regulatory reference COMMISSION DIRECTIVE 2000/39/EC  United Kingdom - Occupational Exposure Limits  Local name Butan-2-one (methyl ethyl ketone)  WEL TWA (OEL TWA) [1] 600 mg/m³  WEL TWA (OEL TWA) [2] 200 ppm  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) 899 mg/m³  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  Ethanol  Ethanol  Ethanol  MEL TWA (OEL TWA) [1] 1920 mg/m³	IOEL TWA [ppm]	200 ppm				
Regulatory reference COMMISSION DIRECTIVE 2000/39/EC  United Kingdom - Occupational Exposure Limits  Local name Butan-2-one (methyl ethyl ketone)  WEL TWA (OEL TWA) [1] 600 mg/m³  WEL TWA (OEL TWA) [2] 200 ppm  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) [ppm] 300 ppm  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  Ethanol  MEL TWA (OEL TWA) [1] 1920 mg/m³	IOEL STEL	900 mg/m³				
United Kingdom - Occupational Exposure Limits  Local name Butan-2-one (methyl ethyl ketone)  WEL TWA (OEL TWA) [1] 600 mg/m³  WEL TWA (OEL TWA) [2] 200 ppm  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) [ppm] 300 ppm  Remark SK (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	IOEL STEL [ppm]	300 ppm				
Local name Butan-2-one (methyl ethyl ketone) WEL TWA (OEL TWA) [1] 600 mg/m³ WEL TWA (OEL TWA) [2] 200 ppm WEL STEL (OEL STEL) 899 mg/m³ WEL STEL (OEL STEL) Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) Regulatory reference EH40/2005 (Fourth edition, 2020). HSE United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone) BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5) United Kingdom - Occupational Exposure Limits Local name Ethanol WEL TWA (OEL TWA) [1] 1920 mg/m³	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC				
WEL TWA (OEL TWA) [1] 600 mg/m³  WEL TWA (OEL TWA) [2] 200 ppm  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) [ppm] 300 ppm  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	United Kingdom - Occupational Exposure Limits					
WEL TWA (OEL TWA) [2] 200 ppm  WEL STEL (OEL STEL) 899 mg/m³  WEL STEL (OEL STEL) [ppm] 300 ppm  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	Local name	Butan-2-one (methyl ethyl ketone)				
WEL STEL (OEL STEL) [ppm] 300 ppm  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	WEL TWA (OEL TWA) [1]	600 mg/m³				
WEL STEL (OEL STEL) [ppm] 300 ppm  Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	WEL TWA (OEL TWA) [2]	200 ppm				
Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	WEL STEL (OEL STEL)	899 mg/m³				
are concerns that dermal absorption will lead to systemic toxicity)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 \( \mu\to\text{mol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift} \)  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	WEL STEL (OEL STEL) [ppm]	300 ppm				
United Kingdom - Biological limit values  Local name Butan-2-one (methyl ethyl ketone)  BMGV 70 μmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	Remark	· ·				
Local nameButan-2-one (methyl ethyl ketone)BMGV70 μmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shiftRegulatory referenceEH40/2005 (Fourth edition, 2020). HSEEthanol (64-17-5)United Kingdom - Occupational Exposure LimitsLocal nameEthanolWEL TWA (OEL TWA) [1]1920 mg/m³	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE				
BMGV 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	United Kingdom - Biological limit values					
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE  Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	Local name	Butan-2-one (methyl ethyl ketone)				
Ethanol (64-17-5)  United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	BMGV	70 μmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift				
United Kingdom - Occupational Exposure Limits  Local name Ethanol  WEL TWA (OEL TWA) [1] 1920 mg/m³	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE				
Local name Ethanol WEL TWA (OEL TWA) [1] 1920 mg/m³	Ethanol (64-17-5)					
WEL TWA (OEL TWA) [1] 1920 mg/m³	United Kingdom - Occupational Exposure Limits					
Y 111	Local name	Ethanol				
WEL TWA (OEL TWA) [2] 1000 ppm	WEL TWA (OEL TWA) [1] 1920 mg/m³					
	WEL TWA (OEL TWA) [2] 1000 ppm					

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#### Ethanol (64-17-5)

Regulatory reference EH40/2005 (Fourth edition, 2020). HSE

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):





#### 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

### Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

## Environmental exposure controls:

Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

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Flammability : Not applicable **Explosive limits** : Not available Not available Lower explosion limit Not available Upper explosion limit Flash point 23 - 55 °C Auto-ignition temperature Not available Decomposition temperature Not available рΗ 6 - 9Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Not available Vapour pressure at 50 °C : Not available Density : ≈ 0,957 kg/l Relative density : Not available Relative vapour density at 20 °C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : ≈ 265 g/l

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Flammable liquid and vapour.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)				
LD50 oral rat 5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity				
LD50 dermal rabbit	16,4 ml/kg (OECD 402 method)			

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propan-2-ol, isopropyl alcohol, isopropanol (6	27.62.0\				
LC50 Inhalation - Rat [ppm]	> 10000 ppm (ppm/6h, vapour) [OECD 403]				
butanone, ethyl methyl ketone (78-93-3)					
LD50 oral rat	2054 mg/kg bodyweight (rat, male) [OECD 423]				
LD50 oral	2328 mg/kg bodyweight (rat, female) [OECD 423]				
LD50 dermal rabbit	> 10 ml/kg (OECD 402 method)				
LD50 dermal	6400 – 8000 mg/kg bodyweight LD50 dermal rabbit				
Ethanol (64-17-5)					
LD50 oral rat	10470 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 9720 - 11380				
Skin corrosion/irritation :	Not classified pH: 6 – 9				
Serious eye damage/irritation :	Not classified pH: 6 – 9				
' '	Not classified				
Germ cell mutagenicity :	Not classified				
3 ,	Not classified				
	Not classified				
STOT-single exposure :	Not classified				
propan-2-ol, isopropyl alcohol, isopropanol (6	57-63-0)				
STOT-single exposure	May cause drowsiness or dizziness.				
butanone, ethyl methyl ketone (78-93-3)					
STOT-single exposure	May cause drowsiness or dizziness.				
STOT-repeated exposure :	Not classified				
butanone, ethyl methyl ketone (78-93-3)					
NOAEC (inhalation, rat, gas, 90 days)	5041 ppmv/6h/day (OECD 413 method)				
Ethanol (64-17-5)					
LOAEL (oral, rat, 90 days)	3200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)				
NOAEL (oral, rat, 90 days)	1730 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:				
Aspiration hazard :	Not classified				

# 11.2. Information on other hazards

No additional information available

# SECTION 12: Ecological information

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

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propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)				
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas			
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas			
LC50 - Other aquatic organisms [1]	> 10000 mg/l (Daphnia magna, 24h) [OECD 202]			
butanone, ethyl methyl ketone (78-93-3)				
LC50 - Fish [1]	2993 mg/l (Pimephales promelas, 96h) [OECD 203]			
EC50 - Crustacea [1]	308 mg/l (Daphnia magna, 48h) [OECD 202]			
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
ErC50 algae	1972 mg/l (Algae, 72h) [OECD 201]			
NOEC (acute)	1170 mg/l (Pimephales promelas, 96h) [OECD 203]			
Ethanol (64-17-5)				
EC50 - Crustacea [1]	> 10000 mg/l Test organisms (species): Daphnia magna			
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			

# 12.2. Persistence and degradability

TECHNO LGE				
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.			
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)				
Biodegradation 53 % (5d)				
butanone, ethyl methyl ketone (78-93-3)				
Biodegradation 98 % (28d) (experimental)				

# 12.3. Bioaccumulative potential

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)				
Partition coefficient n-octanol/water (Log Pow) 0,05				
butanone, ethyl methyl ketone (78-93-3)				
Partition coefficient n-octanol/water (Log Pow) 3				
Partition coefficient n-octanol/water (Log Kow) 0,3 (40 °C)				

## 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

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## 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods Additional information

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
UN 1987	UN 1987	UN 1987	UN 1987	UN 1987
14.2. UN proper shippin	g name			
ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol)	ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol)	Alcohols, n.o.s. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol)	ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol)	ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol)
Transport document descr	iption			
UN 1987 ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol), 3, III, (D/E)	UN 1987 ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol), 3, III	UN 1987 Alcohols, n.o.s. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (Ethanol; Methanol; propan-2-ol, isopropyl alcohol, isopropanol; Ethanol; propan-2-ol, isopropyl alcohol, isopropanol), 3, III
14.3. Transport hazard o	class(es)			
3	3	3	3	3
3	3	3	3	3
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary informatio	n available		1	ı

## 14.6. Special precautions for user

## **Overland transport**

Classification code (ADR) : F1 Special provisions (ADR) : 274, 601

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Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30

Orange plates : T

30 1987

Tunnel restriction code (ADR) : D/E EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 223, 274 Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) TP1, TP29 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-D Stowage category (IMDG) Α

Air transport

PCA Excepted quantities (IATA) : E1 : Y344 PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) : 10L : 355 PCA packing instructions (IATA) PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 366 CAO max net quantity (IATA) : 220L Special provisions (IATA) A3, A180 ERG code (IATA) 3L

Inland waterway transport

: F1 Classification code (ADN) : 274, 601 Special provisions (ADN) : 5 L Limited quantities (ADN) : E1 Excepted quantities (ADN) Carriage permitted (ADN) Т Equipment required (ADN) : PP, EX, A : VE01 Ventilation (ADN) Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 274, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBF

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Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : ≈ 265 g/l

Seveso Additional information

Contains substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Methylethylketone	Butanone	78-93-3	2914 12 00	Catégorie 3		Annexe I

## 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Indication of changes						
Section Changed item Change Comments						
	Revision date	Modified				
	Supersedes	Added				
2.2	Precautionary statements (CLP)	Modified				

Full text of H- and EUH-statements:		
EUH066	Repeated exposure may cause skin dryness or cracking.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H225	Highly flammable liquid and vapour.	

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Full text of H- and EUH-statements:		
H226	Flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]				
Flam. Liq. 3	H226	On basis of test data		

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.