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

1.1. Product identifier

Product form : Mixture
Trade name : RESTORE EUROPE
Product code : CC2610EDJ (5L Jar); CC2611 (20L Pail)
Product group : Trade product
Document no. : LT16550 EU

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Cleaner

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Fleetguard
Unit 3 / Valley Drive / Valley Park / Rugby
CV21 1 TN Warwickshire - The United Kingdom
T +44 (0)1788 853600
custserve.uk@fleetguard.com

Fleetguard
Zone Industrielle du Grand Guelen
29556 Quimper Cedex 9 - France
T +33 (0) 2 98 76 49 49
fleetguard.support.emea@cummins.com

Fleetguard
Catenbergstraat 1
2840 Rumst - Belgium
T +32 3 456 3000
fleetguard.support.emea@cummins.com

1.4. Emergency telephone number

Emergency number : +44 (0) 1235 239670 (Carechem24)
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302

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Skin Irrit. 2 H315
Eye Dam. 1 H318
Skin Sens. 1 H317
STOT SE 3 H335
Aquatic Chronic 3 H412

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

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word

: Danger

Contains

: Alcohols, C12-C14, ethoxylated, sodium xylenesulphonate, Silicic acid, sodium salt, 2,4,7,9-tetramethyldec-5-yne-4,7-diol, 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

Hazard statements (CLP)

: H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P261 - Avoid breathing vapours.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P305+P351+P338+ P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Other hazards

: Results of PBT and vPvB assessment : Contains no PBT/vPvB substances \geq 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



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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohols, C12-C14, ethoxylated	(CAS-No.) 68439-50-9 (EC-No.) 500-213-3 (EC Index) -	10 – 30	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412
sodium xylenesulphonate	(CAS-No.) 1300-72-7 (EC-No.) 215-090-9 (REACH-no) 01-2119513350-56	5 – 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Silicic acid, sodium salt	(CAS-No.) 1344-09-8 (EC-No.) 215-687-4	1 – 5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400
tetrapotassium pyrophosphate	(CAS-No.) 7320-34-5 (EC-No.) 230-785-7	1 – 5	Eye Irrit. 2, H319
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (EC Index) 019-002-00-8	< 1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
2,4,7,9-tetramethyldec-5-yne-4,7-diol	(CAS-No.) 126-86-3 (EC-No.) 204-809-1	< 1	Eye Dam. 1, H318 Skin Sens. 1B, H317
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index) 613-088-00-6	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index) 011-002-00-6 (REACH-no) 01-2119457892-27	< 1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
Silicic acid, sodium salt	(CAS-No.) 1344-09-8 (EC-No.) 215-687-4	(0 ≤C < 28) Skin Irrit. 2, H315 (0 ≤C < 28) STOT SE 3, H335 (0 ≤C < 28) Eye Irrit. 2, H319 (28 ≤C < 39) Skin Irrit. 2, H315 (28 ≤C < 39) STOT SE 3, H336 (28 ≤C < 39) Eye Dam. 1, H318 (39 ≤C < 100) Eye Dam. 1, H318 (39 ≤C < 100) Skin Corr. 1B, H314 (39 ≤C < 100) STOT SE 3, H336 (39 ≤C < 100) Met. Corr. 1, H290
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (EC Index) 019-002-00-8	(0,5 ≤C < 2) Skin Irrit. 2, H315 (0,5 ≤C < 2) Eye Irrit. 2, H319 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index) 613-088-00-6	(0,05 ≤C < 100) Skin Sens. 1, H317
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index) 011-002-00-6 (REACH-no) 01-2119457892-27	(0,5 ≤C < 2) Eye Irrit. 2, H319 (0,5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
Ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: May cause respiratory irritation. Inhalation of mist causes irritation of respiratory system. Cough. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact	: May cause an allergic skin reaction. Causes skin irritation.
Eyes contact	: Causes serious eye damage. The following symptoms may occur: Pain, redness, itching, tears.
Ingestion	: Harmful if swallowed. May cause nausea, abdominal spasms and irritation of the mucous membranes. The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis. Kidney injury may occur. Blood disorder may occur after ingestion.

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	: carbon dioxide (CO ₂), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Not flammable. Heating will cause a rise in pressure with a risk of bursting.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon oxides (CO, CO ₂). Nitrogen oxides. Sulphur oxides. Sodium oxides. Phosphorus oxides.

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Contaminated work clothing must not be allowed out of the workplace. After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from combustible material.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep locked up or in an area accessible only to qualified or authorised persons.

Storage conditions : Keep in properly labelled containers. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Incompatible materials : Keep away from strong acids, strong bases and oxidizing agents.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight.

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage. After use replace the closing cap immediately. Keep container tight closed.



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Packaging materials

: Keep only in the original container.

7.3. Specific end use(s)

Cleaner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)		
Austria	MAK (OEL TWA)	2 mg/m ³ (inhalable fraction)
Bulgaria	OEL TWA	2 mg/m ³
Croatia	KGVI (OEL STEL)	2 mg/m ³
Czech Republic	PEL (OEL TWA)	1 mg/m ³
Denmark	OEL C	2 mg/m ³
Estonia	OEL TWA	2 mg/m ³
Finland	HTP (OEL C)	2 mg/m ³
France	VLE (OEL C/STEL)	2 mg/m ³
Greece	OEL TWA	2 mg/m ³
Greece	OEL STEL	2 mg/m ³
Hungary	AK (OEL TWA)	2 mg/m ³
Hungary	CK (OEL STEL)	2 mg/m ³
Ireland	OEL STEL	2 mg/m ³
Poland	NDS (OEL TWA)	0,5 mg/m ³
Poland	NDSch (OEL STEL)	1 mg/m ³
Portugal	OEL C	2 mg/m ³
Spain	VLA-EC (OEL STEL)	2 mg/m ³
Sweden	NGV (OEL TWA)	1 mg/m ³ (inhalable fraction)
Sweden	KTV (OEL STEL)	2 mg/m ³ (inhalable fraction)
United Kingdom	WEL STEL (OEL STEL)	2 mg/m ³
Norway	Takverdi (OEL C) [1]	2 mg/m ³
Switzerland	MAK (OEL TWA) [1]	2 mg/m ³ (inhalable dust)
Canada (Quebec)	Plafond (OEL C)	2 mg/m ³
USA - ACGIH	ACGIH OEL C	2 mg/m ³
USA - NIOSH	NIOSH REL C	2 mg/m ³
sodium hydroxide; caustic soda (1310-73-2)		
Belgium	Local name	Sodium (hydroxyde de) # Natriumhydroxide
Belgium	OEL TWA	2 mg/m ³

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sodium hydroxide; caustic soda (1310-73-2)		
Belgium	Remark	<p>M: La mention M indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # De vermelding M duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkproces moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. het meetresultaat wordt dan gerelateerd aan de beschouwde periode</p>

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

- Engineering measure(s) : Provide adequate ventilation. Use only outdoors or in a well-ventilated area. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling.
- Personal protective equipment : Choose body protection according to the amount and concentration of the dangerous substance at the work place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Breakthrough time : Not determined. Thickness : Not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Eye protection : Use suitable eye protection (EN166): goggles. face shield
- Body protection : Wear suitable protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: A (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
- Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.
- Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : liquid. (clear).

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Colour	: Colourless.
Odour	: odourless.
Odour threshold	: No data available
pH	: 12
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Not applicable, liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 1,082
Solubility	: soluble in water. Water: 100 %
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: 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 : No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur. No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Hazardous decomposition products. Carbon oxides. Nitrogen oxides (NOx). Sodium oxides. Sulphur oxides. Phosphorus compounds. Reference to other sections 5.2.

SECTION 11: Toxicological information

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

Acute toxicity : Harmful if swallowed.

ATE CLP (oral)	1111,111 mg/kg bodyweight
Alcohols, C12-C14, ethoxylated (68439-50-9)	
LD50/oral/rat	> 1200 mg/kg
sodium xylenesulphonate (1300-72-7)	
LD50/dermal/rabbit	> 2000 mg/kg
Silicic acid, sodium salt (1344-09-8)	
LD50/oral/rat	1960 mg/kg
Potassium hydroxide (1310-58-3)	
LD50/oral/rat	284 mg/kg
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
LD50/oral/rat	1020 mg/kg
LD50/dermal/rat	> 2000 mg/kg
tetrapotassium pyrophosphate (7320-34-5)	
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	> 1,1 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

pH: 12

Serious eye damage/irritation : Causes serious eye damage.

pH: 12

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

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Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
 STOT-single exposure : May cause respiratory irritation.
 STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
 Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

RESTORE EUROPE	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 %

11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Silicic acid, sodium salt (1344-09-8)	
LC50 - Fish [1]	301 – 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 - Fish [2]	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 - Other aquatic organisms [1]	494 ml/l Daphnia magna (Big water flea)
EC50 - Other aquatic organisms [1]	0,4 mg/l Ceriodaphnia Dubia (water flea)

sodium hydroxide; caustic soda (1310-73-2)	
LC50 - Fish [1]	> 35 mg/l
EC50 - Crustacea [1]	40 – 240 mg/l daphnia magna
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea

tetrapotassium pyrophosphate (7320-34-5)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 100 mg/l (Exposure time: 48 h - Species: water flea)

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12.2. Persistence and degradability

RESTORE EUROPE	
Persistence and degradability	The product itself has not been tested.
Alcohols, C12-C14, ethoxylated (68439-50-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	65,4 % (OECD 301D, 28d)
Potassium hydroxide (1310-58-3)	
Persistence and degradability	Not applicable.
tetrapotassium pyrophosphate (7320-34-5)	
Persistence and degradability	Not applicable. Not applicable, inorganic compounds.

12.3. Bioaccumulative potential

RESTORE EUROPE	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.
Alcohols, C12-C14, ethoxylated (68439-50-9)	
Bioaccumulative potential	Low potential.
sodium xylenesulphonate (1300-72-7)	
Partition coefficient n-octanol/water	-3,12 (at 20 °C (at pH 11.96)
Silicic acid, sodium salt (1344-09-8)	
BCF - Fish [1]	(no bioaccumulation expected)
Potassium hydroxide (1310-58-3)	
Partition coefficient n-octanol/water	0,65
Bioaccumulative potential	Not applicable. Product/Substance is inorganic.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
Partition coefficient n-octanol/water	0,99 (at 20 °C (at pH 5)
sodium hydroxide; caustic soda (1310-73-2)	
Partition coefficient n-octanol/water	-3,88

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tetrapotassium pyrophosphate (7320-34-5)	
Bioaccumulative potential	Not applicable, inorganic compounds.

12.4. Mobility in soil

RESTORE EUROPE	
Mobility in soil	No data available
Ecology - soil	The product itself has not been tested.

12.5. Results of PBT and vPvB assessment

RESTORE EUROPE	
Results of PBT assessment	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : 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 %

12.7. Other adverse effects

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities
The following Waste Codes are only suggestions:
07 02 04* - other organic solvents, washing liquids and mother liquors
150110 - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
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 information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	RESTORE EUROPE
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	RESTORE EUROPE

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

VOC content : No data available

15.1.2. National regulations

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France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
German storage class (LGK) : LGK 12 - Non-combustible liquids
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : A (3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Poland

This safety datasheet has been prepared according to Polish legislation. : Not applicable

15.2. Chemical safety assessment

Not applicable

For the following substances of this mixture a chemical safety assessment has been carried out
sodium hydroxide; caustic soda

SECTION 16: Other information

Indication of changes:

2.2	Precautionary statements (CLP)	Modified	
2.3	ED text	Added	
4.2	Chronic symptoms	Added	
4.3	Indication of any immediate medical attention and special treatment needed	Added	
5.2	Special hazards arising from the substance or	Modified	



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	mixture		
5.3	Advice for firefighters	Modified	
7.2	Special rules on packaging	Added	
7.3	Specific end use(s)	Added	
9.2	Information with regard to physical hazard classes	Added	
9.2	Other safety characteristics	Added	
11.1	Reproductive toxicity	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	German storage class (LGK)	Added	
15.1	Waterbezwaarlijkheid	Modified	
16	Other information	Added	

Abbreviations and acronyms:

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
CSR = CSR = Chemical Safety Report
EC50 = Median Effective Concentration
LD50 = Median lethal dose
LC50 = Median lethal concentration
N.O.S. = Not Otherwise Specified
DNEL = DNEL = Derived No Effect Level
PNEC = Predicted No Effect Concentration
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
ABM = Algemene beoordelingsmethodiek
BTT = Breakthrough time (maximum wearing time)
DMEL = Derived Minimal Effect level
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
EWC = European waste catalogue
LL50 = Median lethal level



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	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	VOC = Volatile organic compounds

Sources of key data used to compile the datasheet : LOLI. European Chemicals Bureau. ECHA. Information Supplier. Report : FAI-2017-0786.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Assessment/classification CLP. Article 9. Calculation method.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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