

SAFETY DATA SHEET**OCC cleaning solution****EU3292**

According to EC Directive (EC) No. 1907/2006 (No. 878/2020)

Preparation Date: 09-May-2022

Revision Date: Not applicable

Revision Number:

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product Identifier**

Product Name OCC cleaning solution
UFI: Y2T0-X02X-400F-Y20M

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

Recommended use Analytical reagent
Uses advised against Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Contact Manufacturer	Supplier
DeLaval N.V. Industriepark-Drongen 10 Gent Belgium Tel. +32 9 280 91 21 Email MSDS.EU@delaval.com	DeLaval Inc. Rue Secant Street d'Anjou, Quebec H1J 1S5 Canada Tel. 705-741-3100

1.4. Emergency Telephone Number

Emergency Telephone Number (613) 996-6666 (Canutec)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008

For the full text of the H phrases mentioned in this Section, see Section 16

Skin corrosion/irritation	Category 2. (H315)
Serious eye damage/eye irritation	Category 2. (H319)

2.2. Label Elements

Labeling according to REGULATION (EC) No 1272/2008

Hazard Pictogram(s)



Signal word

WARNING

Hazard statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements

P102 - Keep out of reach of children
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB) ($\geq 0.1\%$)
This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) ($\geq 0.1\%$)
This product does not contain any known or suspected endocrine disruptors ($\geq 0.1\%$)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixture

Chemical nature of the preparation.

Chemical name	EC No	Weight-%	EU - GHS Substance Classification	Specific concentration limit (SCL)	M-Factor (acute)	M-Factor (chronic)	Reach Registration Number
Potassium hydroxide 1310-58-3	215-181-3	< 1	Acute Tox. 4 (H302) Skin Corr. 1A (H314) Met. Corr. 1 (H290)	Eye Irrit. 2 : 0.5% \leq C<2% Skin Corr. 1A : C \geq 5% Skin Corr. 1B : 2% \leq C<5% Skin Irrit. 2 : 0.5% \leq C<2%	-	-	01-2119487136-33
Sodium Hydroxide 1310-73-2	215-185-5	< 1	Skin Corr. 1A (H314) Met. Corr. 1 (H290)	Eye Irrit. 2 : 0.5% \leq C<2% Skin Corr. 1A : C \geq 5% Skin Corr. 1B : 2% \leq C<5% Skin Irrit. 2 : 0.5% \leq C<2%	-	-	01-2119457892-27

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

Acute Toxicity Estimate

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50
Potassium hydroxide 1310-58-3	214 mg/kg (Rat)	-	-
Sodium Hydroxide 1310-73-2	-	1350 mg/kg (Rabbit)	-

Additional information

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

4. FIRST AID MEASURES**4.1. Description of first-aid measures.**

General Advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Skin contact	Rinse with plenty of water. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water.
Inhalation	Move to fresh air.

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

Acute Effects	According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.
Delayed Effects	None known.
Effects of overexposure	None known.

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

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Extinguishing media which must not be used for safety reasons	None.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	None in particular.
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5.3. Advice for firefighters

Protective Equipment and Precautions for Firefighters	Use personal protective equipment.
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6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
Other Information	See Section 12 for more information

6.2. Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up

Dam up. Soak up with inert absorbent material. Prevent product from entering drains. Keep in suitable and closed containers for

disposal.

6.4. Reference to other sections

See Section 12 for more information
For personal protection see section 8
Section 13. Disposal considerations

7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Handling

Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations

Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep away from direct sunlight.

7.3. Specific End Use(s)

Exposure Scenario

Not applicable

Other Guidelines

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical name	EU	United Kingdom	France	Spain	Germany
Potassium hydroxide 1310-58-3		STEL: 2 mg/m ³	STEL: 2 mg/m ³	STEL: 2 mg/m ³	
Sodium Hydroxide 1310-73-2			TWA: 2 mg/m ³	STEL: 2 mg/m ³	
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Potassium hydroxide 1310-58-3		Ceiling: 2 mg/m ³		HTP: 2 mg/m ³	Ceiling: 2 mg/m ³
Sodium Hydroxide 1310-73-2		Ceiling: 2 mg/m ³		Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Potassium hydroxide 1310-58-3	TWA: 2 mg/m ³	TWA: 2 mg/m ³	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³
Sodium Hydroxide 1310-73-2	STEL: 4 mg/m ³ TWA: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 2 mg/m ³	NDSch: 1 mg/m ³ NDS: 0.5 mg/m ³ NDSP - nie określono Metoda oznaczania: PN-Z-0443 5:2011PiMOŚP 2002, nr 1(59)	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³
Chemical name	Sweden	Bulgary	Estonia	Hungary	Croatia
Potassium hydroxide 1310-58-3	Inhalable dust: LLV: 1 mg/m ³ CLV: 2 mg/m ³			ÁK-érték: 2 mg/m ³ CK-érték: 2 mg/m ³	KGVI: 2 mg/m ³
Sodium Hydroxide 1310-73-2	LLV: 1 mg/m ³ CLV 2 mg/m ³				
Chemical name	Lithuania	Latvia	Belgium	European Union	
Potassium hydroxide 1310-58-3			2 mg/m ³ (15 min) (M)		

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection

Safety glasses with side-shields.

Skin Protection

Long sleeved clothing.

Hand Protection
Respiratory Protection

Protective gloves
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Light yellow
Odor	Slight
Odor Threshold	No information available

Property

Melting Point/Range	Values
Boiling Point/Range	No data available
Upper flammability limit:	No data available
Upper Explosion Limit	No data available
Lower flammability limit:	No data available
Lower Explosion Limit	No data available
Flash Point	No data available
Autoignition Temperature	No data available
Decomposition temperature	No data available
pH	13.5
Kinematic viscosity	No data available
Water Solubility	No data available
Solubility in other solvents	No data available
Partition coefficient:	No data available
n-octanol/water	
Vapor Pressure	No data available
Relative Density	No data available
Relative vapor density	No data available
Particle characteristics	Not applicable
Specific Gravity	1.016 (25°C)

9.2. Other Information

Viscosity No data available

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical Stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization None under normal processing. Hazardous polymerisation does not occur.

Possibility of hazardous reactions None under normal use.

10.4. Conditions to Avoid

Keep away from children.

10.5. Incompatible Materials

Incompatible Materials No materials to be especially mentioned

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute Toxicity**

Inhalation	No information available.
Eye contact	No information available.
Skin contact	No information available.
Ingestion	No information available.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	214 mg/kg (Rat)		
Sodium Hydroxide	-	1350 mg/kg (Rabbit)	-

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Irritating to eyes.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors ($\geq 0.1\%$).

11.2.2. Other information**12. ECOLOGICAL INFORMATION****12.1. Toxicity****Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Potassium hydroxide		80: 96 h Gambusia affinis mg/L LC50 static		
Sodium Hydroxide		LC 50 (96 h) 45.4 mg/l (Oncorhynchus mykiss)		EC50 (48 hour): 40.4 mg/l (Ceriodaphnia dubia) >100 mg/l (daphnia) (OECD 202)

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

Chemical name	Partition coefficient
Potassium hydroxide	0.65 0.83

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors ($\geq 0.1\%$).

12.7. Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated Packaging	Dispose of in accordance with local regulations.
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used

14. TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number or ID number	Not regulated
14.2. Proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing Group	Not regulated
14.5. Environmental hazard	No information available
14.6. Special Provisions	None
14.7. Maritime transport in bulk according to IMO instruments	No information available

ADR/RID

14.1. UN number or ID number	Not regulated
14.2. Proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing Group	Not regulated
14.5. Environmental hazard	No information available
14.6. Special Provisions	None

IATA/ICAO

14.1. UN number or ID number	Not regulated
14.2. Proper Shipping Name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing group	Not regulated
14.5. Environmental hazard	No information available
14.6. Special Provisions	None

15. REGULATORY INFORMATION

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

Reg.1907/2006-REACH

Reg. 878/2020 That modify REACH

Reg.1272/2008 On classification, packaging and labeling of dangerous substances and preparations

Dir. 2000/39/CE

Reg. 648/2004/CE

International Inventories

All of the components in the product are on the following Inventory lists: U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Philippines (PICCS).

EINECS/ELINCS

All components are listed or exempted

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**15.2. Chemical Safety Assessment**

No data available

16. OTHER INFORMATION**Key literature references and sources for data**www.ChemADVISOR.com/**Preparation Date:**

09-May-2022

Revision Note:**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet