

Product Combi Oven Cleaner  
 Revision date 12 May 2021  
 Revision 3



**Safety Data Sheet (SDS)**  
 according to Regulation (EC) No. 1907/2006

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

<b>Product name</b>	<b>Combi Oven Cleaner</b>
<b>Product no.</b>	<b>KHCombi</b>
<b>Other means of identification</b>	No information available.

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

<b>Identified uses</b>	Cleaning agent. For professional use only.
<b>Uses advised against</b>	Any other purpose.

**1.3 Details of the supplier of the safety data sheet**

<b>Supplier</b>	Kitchenmaster NI Ltd 11 Comber Road Belfast BT8 8AN United Kingdom Tel: 028 9081477 02890812881
<b>Contact person</b>	sales@kitchenmaster-ni.com

**1.4 Emergency telephone number**

<b>Emergency telephone</b>	Emergency Telephone Number: 028 9081 4777 08:30 – 17:00 Monday to Thursday 08:30 – 16:30 Friday
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**Section 2: Hazards identification**

**2.1 Classification of the substance or mixture**

<b>Classification (EC 1272/2008)</b>	
Physical and chemical hazards	Me. Corr 1 - H290
Human health	Skin Corr. 1B - H314
Environment	Not classified

**2.2 Label elements**

<b>Contains</b>	Sodium hydroxide
<b>Detergent labeling</b>	<5% non-ionic surfactants <5% amphoteric surfactants

**Label in accordance with (EC) no. 1272/2008**



<b>Signal word</b>	Danger
<b>Hazard statements</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
<b>Precautionary statements</b>	<b>Prevention</b> P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.

**Response**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

### 2.3 Other hazards

None known.

## Section 3: Composition/information on ingredients

### 3.1 Substance

Not applicable.

### 3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5 REACH Reg No.: 01-2119457892-27-XXXX	Skin Corr. 1A - H314, Me. Corr 1 - H290	1-5%
2-butoxyethanol	CAS-No.: 111-76-2 EC No.: 203-905-0 REACH Reg No.: 01-2119475108-36-XXXX	Acute Tox 4 - H302, Acute Tox 4 - H312, Acute Tox 4 - H332, Skin Irrit.2 - H315, Eye Irrit.2A - H319	1-5%
Alcohols, C12-13, branched and linear, ethoxylated	CAS-No.: 160901-19-9 EC No.: 931-954-4	Acute Tox 4 - H302, Eye Dam. 1 - H318, Aquatic Chronic 3 - H412	1-5%

The full text for all hazard statements are displayed in section 16.

#### Composition comments

The data shown are in accordance with the latest EC Directives.

Sodium hydroxide - SCL Skin Corr. 1A: C >= 5%; Skin Corr. 1B: C >= 2 - < 5%; Skin Irrit. 2: C >= 0.5 - < 2%; Eye Irrit. 2: C >= 0.5 - < 2%.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts: Specific Concentration Limits = H318 Eye Damage 1 >10; H319 Eye Irrit. 2 >4-<=10.

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

#### Ingestion

If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical attention. Never give anything by mouth to an unconscious person.

#### Skin contact

Remove victim immediately from source of exposure. Remove contaminated clothing, shoes and jewelry and wash before reuse. Wash the skin immediately with water. Obtain medical attention if irritation persists or if blistering occurs.

#### Eye contact

Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek medical attention.

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

#### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

#### Inhalation

Inhalation of mist or vapor may cause respiratory tract irritation.

#### Ingestion

May cause chemical burns in mouth and throat. May cause severe internal injury.

<b>Skin contact</b>	Corrosive. Cause severe skin burns.
<b>Eye contact</b>	Extreme irritation of eyes and mucous membranes, including burning and tearing. Corrosive to eyes.

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

<b>Notes to the physician</b>	Treat symptomatically.
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### **Section 5: Firefighting measures**

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#### **5.1 Extinguishing media**

<b>Extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media</b>	High volume water jet.

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

<b>Hazardous combustion products</b>	When heated, toxic and corrosive vapours/gases may be formed. During fire, toxic gases (CO, CO <sub>2</sub> ) are formed.
<b>Unusual fire &amp; explosion hazards</b>	Flammable hydrogen can form when the product contacts metals.
<b>Specific hazards</b>	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

#### **5.3 Advice for firefighters**

<b>Special fire fighting procedures</b>	If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.
<b>Protective equipment for firefighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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### **Section 6: Accidental release measures**

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

<b>For non-emergency personnel</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. If necessary evacuate surrounding areas.
<b>For emergency responders</b>	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

#### **6.2 Environmental precautions**

<b>Environmental precautions</b>	Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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#### **6.3 Methods and material for containment and cleaning up**

<b>Spill clean up methods</b>	Stop leak if possible without risk. Ventilate and evacuate the area. Eliminate all ignition sources. DO NOT touch spilled material! When dealing with a spillage, wear necessary protective equipment. Absorb spillage with non-combustible, inert absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.
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#### **6.4 Reference to other sections**

<b>Reference to other sections</b>	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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### **Section 7: Handling and storage**

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**7.1 Precautions for safe handling**

<b>Handling</b>	Read and follow manufacturer's recommendations. Use proper personal protection when handling (refer to Section 8). Do not handle broken packages without protective equipment. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.
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**7.2 Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Keep upright, locked up and out of reach of children. Keep the product in its original container. Store in cool dry areas away from direct sunlight or sources of ignition. Store separate from other products which react with acids and strong oxidising agents.
<b>Storage class</b>	Corrosive storage.

**7.3 Specific end use(s)**

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
<b>Usage description</b>	Use only according to directions. Replace and tighten cap after use.

**Section 8: Exposure controls/Personal protection****8.1 Control parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Sodium hydroxide	OEL				2 mg/m <sup>3</sup>	
Sodium hydroxide	WEL				2 mg/m <sup>3</sup>	
2-butoxyethanol	OEL	20 ppm	98 mg/m <sup>3</sup>	50 ppm	246 mg/m <sup>3</sup>	Sk, IOELV
2-butoxyethanol	WEL	25 ppm	123 mg/m <sup>3</sup>	50 ppm	246 mg/m <sup>3</sup>	Sk, BMGV

<b>Ingredient comments</b>	Ireland, Occupational Exposure Limits 2021. WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.
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**8.2 Exposure Controls****Protective equipment**

<b>Engineering measures</b>	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
<b>Respiratory equipment</b>	If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149. The specific respirator selected must be based on contamination levels found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Use type ABEK (EN 14387) respirator cartridges. Consult manufacturer for specific advice.
<b>Hand protection</b>	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Gloves must be inspected prior to use. Suggested material: Butyl rubber - Layer thickness: 0.11 mm, Breakthrough time: >480 min. Consult manufacturer for specific advice. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
<b>Eye protection</b>	Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
<b>Other protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943.
<b>Hygiene measures</b>	Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When

<b>Process conditions</b>	using do not eat, drink or smoke. Wash hands after use. Ensure that eye flushing systems and safety showers are located close by in the work place.
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**Section 9: Physical and chemical properties**


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**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	Viscous liquid.
<b>Colour</b>	Red. Amber.
<b>Odour</b>	Characteristic.
<b>Odour threshold - lower</b>	No information available as testing has not been completed.
<b>Odour threshold - upper</b>	No information available as testing has not been completed.
<b>pH-Value, Conc. Solution</b>	>13
<b>pH-Value, Diluted solution</b>	Not applicable as the product is a concentrated solution.
<b>Melting point</b>	No information available as testing has not been completed.
<b>Initial boiling point and boiling range</b>	No information available as testing has not been completed.
<b>Flash point</b>	Non-Flammable
<b>Evaporation rate</b>	No information available as testing has not been completed.
<b>Flammability state</b>	Not applicable as the product is not flammable.
<b>Flammability limit - lower(%)</b>	Not applicable as the product is not flammable.
<b>Flammability limit - upper(%)</b>	Not applicable as the product is not flammable.
<b>Vapour pressure</b>	No information available as testing has not been completed.
<b>Vapour density (air=1)</b>	No information available as testing has not been completed.
<b>Relative density</b>	1.04 - 1.05 kg/l (at 20°C)
<b>Bulk density</b>	Not applicable as the product is a liquid.
<b>Solubility</b>	Soluble in water.
<b>Decomposition temperature</b>	No information available as testing has not been completed.
<b>Partition coefficient; n-Octanol/Water</b>	Not applicable as the product is a mixture.
<b>Auto ignition temperature (°C)</b>	Not applicable as the product is not flammable.
<b>Viscosity</b>	No information available as testing has not been completed.
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

**9.2 Other information**

<b>Molecular weight</b>	Not applicable as the product is a mixture.
<b>Volatile organic compound</b>	No information available as testing has not been completed.
<b>Other information</b>	None noted.

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**Section 10: Stability and reactivity**


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**10.1 Reactivity**

**Reactivity** Attacks metals liberating flammable hydrogen gas. Reaction with: oxidising agents. Reactive with metals. Acids

**10.2 Chemical stability**

**Stability** Stable under normal temperature conditions and recommended use.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** For information on hazardous reactions see section 10.1.  
**Hazardous polymerisation** Unknown  
**Polymerisation description** Unknown.

**10.4 Conditions to Avoid**

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Avoid extreme temperatures and storing in large quantities and for long periods of time.

**10.5 Incompatible materials**

**Materials to avoid** Do not mix with other chemicals unless listed on directions. Keep away from acids and oxidants. Corrosive to metals.

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other harmful gases or vapors.

**Section 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008**

**Toxicological information** No toxicological information for the overall finished product.

**Acute toxicity (Oral LD50)** No information available as testing has not been completed.  
**Acute toxicity (Dermal LD50)** No information available as testing has not been completed.  
**Acute toxicity (Inhalation LD50)** No information available as testing has not been completed.

**Serious eye damage/irritation** Causes serious eye damage.

**Skin corrosion/irritation** The product is classified as a skin corrosion/irritation hazard.

**Respiratory sensitisation** The product is not classified as a respiratory hazard.  
**Skin sensitisation** The product is not classified as a skin sensitisation hazard.

**Germ cell mutagenicity** The product is not classified as a mutagen.

**Carcinogenicity** The product is not classified as a carcinogen hazard.

**Specific target organ toxicity - Single exposure:**  
**STOT - Single exposure** The product is not classified as a single exposure specific target organ toxin.  
**Specific target organ toxicity - Repeated exposure:**  
**STOT - Repeated exposure** The product is not classified as a repeat exposure specific target organ toxin.

**Inhalation** Inhalation of mist or vapor may cause respiratory tract irritation.  
**Ingestion** May cause chemical burns in mouth and throat. May cause severe internal injury.  
**Skin contact** Corrosive. Cause severe skin burns.  
**Eye contact** Extreme irritation of eyes and mucous membranes, including burning and tearing. Corrosive to eyes.

**Waste management** When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**Routes of entry** Eyes, skin, ingestion or inhalation.  
**Target organs** Eyes, skin, digestive system, respiratory system.

**Aspiration hazards:** The product is not classified as an aspiration hazard.  
**Reproductive toxicity:** The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
2-butoxyethanol	1300.00mg/kg Rat		
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts	2335.00mg/kg Rat	>2000.00mg/kg Rat	
Alcohols, C12-13, branched and linear, ethoxylated	>300.00mg/kg Rat	>2000.00mg/kg Rabbit	

## 11.2 Information on other hazards

Information on other hazards      None known.

## Section 12: Ecological information

### 12.1 Toxicity

**Acute toxicity - Fish**      No information available as testing has not been completed.  
**Acute toxicity - Aquatic invertebrates**      No information available as testing has not been completed.  
**Acute toxicity - Aquatic plants**      No information available as testing has not been completed.  
**Acute toxicity - Microorganisms**      No information available as testing has not been completed.  
**Chronic toxicity - Fish**      No information available as testing has not been completed.  
**Chronic toxicity - Aquatic invertebrates**      No information available as testing has not been completed.  
**Chronic toxicity - Aquatic plants**      No information available as testing has not been completed.  
**Chronic toxicity - Microorganisms**      No information available as testing has not been completed.  
**Ecotoxicity**      The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.  
**Eco toxicological information**      Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

### 12.2 Persistence and degradability

**Degradability**      The degradability of the product has not been stated.  
**Biological oxygen demand**      No information available as testing has not been completed.  
**Chemical oxygen demand**      No information available as testing has not been completed.

### 12.3 Bioaccumulative potential

**Bioaccumulative potential**      No data available on bioaccumulation.  
**Bioaccumulation factor**      No information available as testing has not been completed.  
**Partition coefficient; n-Octanol/Water**      Not applicable as the product is a mixture.

### 12.4 Mobility in soil

**Mobility**      The product is soluble in water.

### 12.5 Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**      The product does not contain any PBT or vPvB Substances.

### 12.6 Endocrine disrupting properties

**Endocrine disrupting properties**      The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.

### 12.7 Other adverse effects

**Other adverse effects**      No information available.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)

2-butoxyethanol	LC50 96 Hours 1474.00mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 1550.00mg/l Daphnia magna	EC50 72 Hours 1840.00mg/l Senastrum Capricornutum
Sodium hydroxide	LC50 96 Hours 125.00mg/l Freshwater Fish		
Alcohols, C12-13, branched and linear, ethoxylated		EC50 48 Hours 1.00mg/l Daphnia magna	

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**Section 13: Disposal considerations**


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**Waste management** When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**13.1 Waste treatment methods**

**Disposal methods** Dispose of waste and residues in accordance with local authority requirements.

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**Section 14: Transport information**


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**14.1 UN number or ID number**

UN no. (ADR) UN1824  
 UN no. (IMDG) UN1824  
 UN no. (IATA) UN1824

**14.2 UN proper shipping name**

ADR proper shipping name SODIUM HYDROXIDE SOLUTION  
 IMDG proper shipping name SODIUM HYDROXIDE SOLUTION  
 IATA proper shipping name SODIUM HYDROXIDE SOLUTION

**14.3 Transport hazard class(es)**

ADR class 8  
 IMDG class 8  
 IATA class 8

Transport labels


**14.4 Packing group**

ADR/RID/ADN packing group II  
 IMDG packing group II  
 IATA packing group II

**14.5 Environmental hazards**

ADR No  
 IMDG No  
 IATA No

**14.6 Special precautions for user**

EMS F-A, S-B  
 Emergency action code A3 A803  
 Hazard no. (ADR) 80  
 Tunnel restriction code (E)

**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**

<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
	REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
	Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.
<b>Approved code of practice</b>	Workplace Exposure Limits Guidance Note EH40/2005.
	2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

**15.2 Chemical safety assessment**

<b>Chemical safety assessment</b>	No chemical safety assessment has been carried out.
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**Section 16: Other information**

<b>General information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a third issue. [1]Information updated. [2]Information updated. [5]Information updated. [6]Information updated. [7]Information updated. [8]Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [12]Information updated. [15]Information updated.
<b>Revision date</b>	12 May 2021
<b>Supersedes date</b>	20 September 2019
<b>Revision</b>	3
<b>Safety data sheet status</b>	Approved.

**Hazard statements in full**

<b>H290</b>	May be corrosive to metals.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H315</b>	Causes skin irritation.
<b>H319</b>	Causes serious eye irritation.
<b>H332</b>	Harmful if inhaled.
<b>H318</b>	Causes serious eye damage.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H304</b>	May be fatal if swallowed and enters airways.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.