

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Product form : Mixture  
 Product name : KLENZ 2  
 Product code : K2  
 Type of product : Detergent  
 Product group : CFH Product

**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  
 Industrial/Professional use spec : Industrial use  
 Use of the substance/mixture : Detergent

**1.2.2. Uses advised against**

No additional information available

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

Christeys Food Hygiene Ltd.  
 2, Cameron Court, Winwick Quay  
 WA2 8RE Warrington - United Kingdom  
 T +44(0)1925 234696 - F +44(0)1925 234693  
[UK-foodinfo@christeys.com](mailto:UK-foodinfo@christeys.com) - [www.christeys.com](http://www.christeys.com)

**Distributor**

Casoria Company Ltd.  
 1 Farnham Street  
 H12 A9K0 Cavan - Ireland  
 T 00353 49 4361869 - F 00353 49 436 1869  
[sds@casoria.ie](mailto:sds@casoria.ie) - [www.casoria.ie](http://www.casoria.ie)

**1.4. Emergency telephone number**

Emergency number : 01925 234696 (9:00 - 17:00 GMT)

Country	Official advisory body	Address	Emergency number	Comment
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)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**
**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Met. Corr. 1 H290  
 Skin Corr. 1 H314  
 Eye Dam. 1 H318

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

**Adverse physicochemical, human health and environmental effects**

Causes severe skin burns and eye damage.

**2.2. Label elements**
**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS05

CLP Signal word : Danger  
 Contains : Sodium Hydroxide  
 Hazard statements (CLP) : H290 - May be corrosive to metals.  
 H314 - Causes severe skin burns and eye damage.

# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Precautionary statements (CLP)

: P260 - Do not breathe mist, spray.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor.  
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor.  
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.  
P390 - Absorb spillage to prevent material damage.

### 2.3. Other hazards

No additional information available

## 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]
Sodium Hydroxide substance with national workplace exposure limit(s) (GB)	(CAS-no) 1310-73-2 (Einecs nr) 215-185-5 (EG annex nr) 011-002-00-6	30 – 60	Met. Corr. 1, H290 Skin Corr. 1A, H314
Capryl Glucoside	(CAS-no) 68515-73-1 (Einecs nr) 500-220-1 (REACH-no) 01-2119488530-36	0.1 – 1	Eye Dam. 1, H318

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sodium Hydroxide	(CAS-no) 1310-73-2 (Einecs nr) 215-185-5 (EG annex nr) 011-002-00-6	( 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
Capryl Glucoside	(CAS-no) 68515-73-1 (Einecs nr) 500-220-1 (REACH-no) 01-2119488530-36	( 0 ≤C < 71) Eye Irrit. 2, H319 ( 72 ≤C < 100) Eye Dam. 1, H318

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### Inhalation

: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration as needed. Obtain medical attention if breathing difficulty persists.

#### Skin contact

: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.

#### Eye contact

: Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain emergency medical attention.

#### Ingestion

: Do NOT induce vomiting. Rinse mouth out with water. Obtain emergency medical attention.

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

#### Acute effects inhalation

: Irritating to the respiratory system, may cause throat pain and cough.

#### Acute effects skin

: Causes severe burns.

#### Acute effects eyes

: Causes serious eye damage.

#### Acute effects oral route

: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Prompt treatment is essential to minimize damage.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

- Fire hazard : Not flammable.  
Reactivity in case of fire : Reacts exothermically with water (moisture).

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

## SECTION 6: Accidental release measures

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

- General measures : Wear recommended personal protective equipment.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Avoid any direct contact with the product. Use personal protective equipment as required.  
Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

- For containment : Stop leak if safe to do so. Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Sweep or shovel spills into appropriate container for disposal.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation. Wash contaminated area with large amounts of water.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not mix with other products.  
Hygiene measures : Do not eat, drink or smoke when using this product.

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

- Storage conditions : Keep only in original container. Store in a well-ventilated place. Keep cool. Avoid high temperatures.  
Incompatible products : Strong acids.  
Incompatible materials : Aluminium. Zinc. Base metals and alloys.

### 7.3. Specific end use(s)

Detergent.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Sodium Hydroxide (1310-73-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m³

#### 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

# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Good ventilation of the workplace required.

#### 8.2.2. Personal protection equipment

##### 8.2.2.1. Eye and face protection

###### Eye protection:

Goggles. Use eye protection according to EN 166, designed to protect against liquid splashes. If there is a risk of liquid being splashed : Wear suitable face shield

##### 8.2.2.2. Skin protection

###### Protective equipment:

Wear suitable protective clothing. PVC apron covering the tops of the boots. Boots made of PVC

###### Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

Not required for normal conditions of use

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Off-white.
Physical state/form	: Opalescent Liquid.
Odour	: None.
Odour threshold	: Not available
Melting point/range	: Not available
Freezing point	: < -15 °C
Boiling point/Boiling range	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Autoignition temperature	: Not available
Decomposition temperature	: Not available
pH	: > 13 , 1% v/v
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.34
Relative density	: Not available
Relative vapour density at 20 °C	: Not available

# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts with (some) metals, release of highly flammable gases/vapours (hydrogen). Reacts violently with strong acids. Reacts exothermically with water (moisture).

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Aluminium. Zinc. Base metals and alloys. Strong acids.

### 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

Capryl Glucoside (68515-73-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation	: Causes severe skin burns. pH: > 13 , 1% v/v
Serious eye damage/irritation	: Causes serious eye damage. pH: > 13 , 1% v/v
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

Capryl Glucoside (68515-73-1)	
LOAEL (oral, rat)	> 5000 mg/kg bodyweight
LOAEL (dermal, rat/rabbit)	> 2000 mg/kg bodyweight

STOT-repeated exposure	: Not classified
------------------------	------------------

# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Capryl Glucoside (68515-73-1)	
LC50 - Fish [1]	96.64 mg/l
LC50 - Fish [2]	> 21 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 - Other aquatic organisms [1]	31.62 mg/l
EC50 - Other aquatic organisms [2]	> 560 mg/l
EC50 72h - Algae [1]	37 mg/l
EC50 72h - Algae [2]	19.82 mg/l
NOEC (acute)	10 mg/l
NOEC (chronic)	2 mg/l
NOEC chronic fish	1.8 mg/l

Sodium Hydroxide (1310-73-2)	
LC50 - Fish [1]	33 – 189 mg/l

### 12.2. Persistence and degradability

Capryl Glucoside (68515-73-1)	
Persistence and degradability	Biodegradable.
Biodegradation	100 %

### 12.3. Bioaccumulative potential

Capryl Glucoside (68515-73-1)	
Log Pow	< 1.77

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

KLENZ 2	
Results of PBT assessment	The product does not meet the PBT and vPvB classification criteria

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with ADR / IMDG

ADR	IMDG
14.1. UN number or ID number	
UN 1824	UN 1824

# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 14.2. UN proper shipping name

SODIUM HYDROXIDE  
SOLUTION

SODIUM HYDROXIDE SOLUTION

### Transport document description

UN 1824 SODIUM  
HYDROXIDE SOLUTION,  
8, II, (E)

UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

### 14.3. Transport hazard class(es)

8



8



### 14.4. Packing group

II

II

### 14.5. Environmental hazards

Dangerous for the  
environment : No

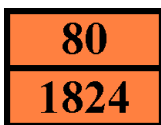
Dangerous for the environment : No  
Marine pollutant : No

No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : C5  
Limited quantities (ADR) : 1I  
Packing instructions (ADR) : P001, IBC02  
Mixed packing provisions (ADR) : MP15  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP2  
Tank code (ADR) : L4BN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel code : E  
EAC code : 2R

#### Transport by sea

Limited quantities (IMDG) : 1 L  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02

### 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.

# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

Detergent Regulation (648/2004/EC): Labelling of contents:	
<b>Component</b>	<b>%</b>
non-ionic surfactants, phosphonates	<5%

### 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
	Supersedes	Added	
	Review date	Added	
	Display additional SDS EU addresses	Added	
	SDS EU format	Added	
	Type of product	Added	
1.1	Name	Added	
1.1	Product code	Added	
1.2	Use of the substance/mixture	Added	
1.2	Main use category	Added	
1.2	Industrial/Professional use spec	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.2	Acute effects skin	Added	
4.2	Acute effects inhalation	Added	
4.2	Acute effects oral route	Added	
4.2	Acute effects eyes	Added	
5.1	Suitable extinguishing media	Modified	
6.3	For containment	Modified	
7.1	Hygiene measures	Added	
7.3	Specific end uses	Added	

Data sources : 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.

Other information : None.

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A



# KLENZ 2

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Met. Corr. 1	H290	Calculation method
Skin Corr. 1	H314	On basis of test data
Eye Dam. 1	H318	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.