

# OPTIMUM HEAVY DUTY CLEANER

Code: OPTK3

## Safety Data Sheet compliant with Regulation (EU) 2020/878

Version **7.0.1**

Creation date : **08/02/23**

Revision: **08/02/23**

Print Date : 09/12/23

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Trade name OPTIMUM HEAVY DUTY CLEANER

UFI : CSEH-S07R-K00Y-YUR6

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

Use of the product

ALKALINE DETERGENT  
FOOD SERVICE  
Concentrated Heavy Duty Cleaner - Suitable for cleaning and degreasing a variety of surfaces

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

Company identification

Out of hours Emergency Telephone Number +44 (0) 1865 407333  
UK - Holchem Laboratories Ltd. Gateway House, Pilsworth Road,  
Bury, BL9 8RD  
Tel : +44 (0) 1706 222288; e-mail info@holchem.co.uk

EU - HYPRED SAS  
55, Boulevard Jules Verger B.P 10180  
35803 DINARD Cedex - FRANCE  
Tél : +33 (0)2 99 16 50 00  
Fax : +33 (0)2 99 16 50 20  
e-mail : kersia@kersia-group.com

For information regarding this safety data sheet, please contact :  
regulatory@kersia-group.com

#### 1.4. Emergency telephone number

Emergency phone number

Emergency direct number ( 24 hours a day, 7 days a week ) : +44 1273 289451

CARECHEM 24  
Tel. +44 1865 407333

For information or to report a poisoning incident contact The National Poisons Information Centre:  
+353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week).  
Healthcare Professionals:

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+353 (1) 809 2566 (24 hour service)  
NHS: 111

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

Substance corrosive to metals - Category 1

H290: May be corrosive to metals.

Skin corrosion - Category 1B

H314: Causes severe skin burns and eye damage.

Serious damage to eyes - Category 1

H318: Causes serious eye damage.

### 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Contains : Sodium hydroxide+ Ethylenediamine tetraacetic acid tetrasodium salt+ Alcohols C12-C14, ethoxylates, sulphate, sodium salts

Hazard statement(s) :

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

Precautionary statement(s) :

P234: Keep only in original packaging.

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

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

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

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 POISON CENTER or doctor/physician.

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P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable as this involves a mixture.

#### 3.2. Mixtures

Chemical nature of the mixture : ALKALINE DETERGENT

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| Substance(s)  | CAS number(s) | EINECS number(s) | index        | No registration REACH | Classification according to Regulation (EC) 1272/2008  | SCL M-factor ATE  | Type    |
|---|---------------|------------------|--------------|-----------------------|--|---|---------|
| 1% <= Sodium hydroxide <= 5%                                      | 1310-73-2     | 215-185-5        | 011-002-00-6 | 01-2119457892-27      | Skin Corr. 1A H314<br>Met. Corr. 1 H290  | C ≥ 5%<br>Skin Corr. 1A H314<br>2% ≤ C < 5%<br>Skin Corr. 1B H314<br>0.5% ≤ C < 2%<br>Skin Irrit. 2 H315<br>Eye Irrit. 2 H319 | (1)     |
| 1% <= Alcohols C12-C14, ethoxylates, sulphate, sodium salts <= 5% | 68891-38-3    | 500-234-8        |              | 01-2119488639-16      | Skin Irrit. 2 H315<br>Eye Dam. 1 H318<br>Aquatic Chronic 3 H412  |   | (1)     |
| 1% <= 2-(2-Butoxyethoxy) ethanol <= 5%                            | 112-34-5      | 203-961-6        | 603-096-00-8 | 01-2119475104-44      | Eye Irrit. 2 H319  |   | (1) (2) |
| 1% <= Ethylenediamine tetraacetic acid tetrasodium salt <= 5%     | 64-02-8       | 200-573-9        | 607-428-00-2 |                       | Met. Corr. 1 H290<br>Eye Dam. 1 H318<br>Acute Tox. 4 (inhalation) H332<br>STOT RE 2 H373<br>Acute Tox. 4 (oral) H302 |   | (1)     |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides<=1%        | 308062-28-4   | 931-292-6        |              | 01-2119490061-47      | Acute Tox. 4 (oral) H302<br>Skin Irrit. 2 H315<br>Eye Dam. 1 H318<br>Aquatic Acute 1 H400<br>Aquatic Chronic 2 H411  | M Factor (Acute) 1  | (1)     |

### Type

- (1) : Substance classified as hazardous for health and/or the environment  
 (2) : Substance with an exposure limit at the work station.  
 Substance of very high concern candidate for the authorisation procedure:  
 (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)  
 (4) : Substance considered as vPvB (very persistent, very bioaccumulable)  
 (5) : Substance considered as carcinogenic category 1A  
 (6) : Substance considered as carcinogenic category 1B  
 (7) : Substance considered as mutagenic category 1A  
 (8) : Substance considered as mutagenic category 1B  
 (9) : Substance considered as reprotoxic category 1A  
 (10) : Substance considered as reprotoxic category 1B  
 (11) : Substance considered as endocrine disrupter  
 (12) : Other substance considered hazardous to health or the environment  
 (N) : Nanomaterial

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

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

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#### General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.  
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

#### In the event of inhalation :

Bring to fresh air.  
Put into practice respiratory help procedure if needed and get medical advice immediately.

#### In the event of contact with the skin :

Take off immediately all contaminated clothing.  
Wash immediately with plenty of water for 15 minutes at least.  
Immediately call a POISON CENTER or doctor/physician.

#### In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.  
Remove contact lenses if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.

#### In the event of ingestion :

Rinse mouth.  
Do NOT induce vomiting.  
Send to hospital.

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

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.  
Risk of perforating digestive tracts.

Inhalation : Aerosols can induce respiratory tracts irritation.

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

Treatments : Symptomatic treatment

## SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media :  
Agents compatible with other products involved into fire.

Unsuitable extinguishing media :  
None from our knowledge.

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

Risk nitrogen oxide emission (Nox) in the event of fire.

OPTIMUM HEAVY DUTY CLEANER is non-flammable.

However, in contact with certain metals (aluminium, zinc...), release of flammable and/or explosive hydrogen if ignited.

### 5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.

#### 6.1.2. For emergency responders :

Evacuate the personnel to a safe location.

Keep people upwind and away from the location of the flow/leak.

Use personal protection equipment.

### 6.2. Environmental precautions

Intervention limited to trained staff.

Do not discharge the product directly to sewer or to environment.

Take as soon as possible all incompatible materials away.

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

Small spillage :

Wash with plenty of water.

Large spillage :

Mark out, soak up with an inert absorbant and pump in an emergency tank.

Never return spills in original containers for re-use.

Keep in suitable, properly labelled and closed containers for disposal.

### 6.4. Reference to other sections

Respect protective measures presented at heading 8.

Refer to section 13 for the elimination.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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Avoid contact with skin, eyes and clothing.  
Take off immediately all contaminated clothing.  
Do not eat, drink or smoke in work area. Avoid projections during use.  
Do not mix with an acid.  
Do not mix with strong oxidizing agents.

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

#### 7.2.1. Storage :

Keep only in the original container.  
Keep container closed.  
Keep in a clean and dry place.  
Keep away from products sensitive to alkalis.

#### 7.2.2. Packaging or wrapping materials :

### 7.3. Specific end use(s)

No other recommendation.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limit values :

| Substance                  | CAS number | Country | Type           | Value | Unit              | Comments   | source   |
|----------------------------|------------|---------|----------------|-------|-------------------|--|--|
| 2-(2-Butoxyethoxy) ethanol | 112-34-5   | EU      | OEL 8h         | 10    | ppm               | Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography) | International limit values for chemical agents |
|                            |            |         |                | 67,5  | mg/m <sup>3</sup> | Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography) | International limit values for chemical agents |
|                            |            |         | OEL Short term | 15    | ppm               | Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography) | International limit values for chemical agents |
|                            |            |         |                | 101,2 | mg/m <sup>3</sup> | Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography) | International limit values for chemical agents |
| Sodium hydroxide           | 131073-2   | IRL     | OEL Short term | 2     | mg/m <sup>3</sup> | 15 minutes reference period  | International limit values for chemical agents |

### 8.2. Exposure controls

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According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

\* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

\* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

\* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

### 8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

### 8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

Thickness: > 0.5 mm

Butyl rubber.

PVC

Neoprene.

Permeation time >= 480 min

Thickness: > 0.3 mm

Nitrile rubber.

Do not wear polyvinyl alcohol (PVA) gloves.



Skin protection :

Wear boots and a protective cloth with chemical resistance.



Respiratory protection :

None under normal conditions of use.



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Thermal hazards :

Not applicable

Health measures :

Safety shower and eye wash fountain near to workplace.

After using, wash systematically all personal protective equipment.

Handle in accordance with good industrial hygiene practices and the safety instructions.

### 8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|  |                   |
|--|-------------------|
| Appearance                             | Clear liquid      |
| Colour                                 | Red               |
| Odour                                  | Detergent         |
| Odour threshold                        | Not available     |
| Freezing point                         | Not available     |
| Melting point                          | Not applicable    |
| Boiling point                          | Not available     |
| Flammability                           | Not applicable    |
| Lower explosive limit                  | Not applicable    |
| upper explosive limit                  | Not applicable    |
| Flash point                            | Not applicable    |
| Auto-ignition temperature              | Not applicable    |
| Decomposition temperature              | Not available     |
| Pure pH (20°C)                         | > 13              |
| pH value at 10g/l (20°C)               | 11 - 12           |
| kinematic viscosity                    | Not available     |
| Solubility                             | Soluble in water. |
| Partition coefficient: n-octanol/water | Not applicable    |
| Vapour pressure                        | Not available     |
| Mass density (20°C)                    | 1.05 g/cm³        |
| Relative density (20°C)                | 1.05              |
| Vapour density                         | Not available     |
| Particle characteristics               | Not applicable    |

### 9.2. Other information

|                      |                |
|----------------------|----------------|
| Explosive properties | Not applicable |
| Oxidising properties | Not applicable |
| Evaporation rate:    | Not available  |

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No hazardous reactivity of the product in its commercial packaging and under normal and recommended environmental conditions of storage and handling.

### 10.2. Chemical stability

Stable in the recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Exothermic reactions with acids.

Exothermic reactions with strong oxidizing agents.

### 10.4. Conditions to avoid

None to our knowledge.

### 10.5. Incompatible materials

Acids.

Strong oxidizing agents.

Light metals and/or colored.

### 10.6. Hazardous decomposition products

Risk nitrogen oxide emission (Nox) in the event of fire.

In contact with certain metals (aluminium, zinc...), release of flammable and/or explosive hydrogen if ignited.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) N°1272/2008

#### Substance-related data:

##### Acute toxicity

2-(2-Butoxyethoxy) ethanol : LD 50 - oral rat 2,410 mg/kg. - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : LD 50 - dermal (OECD 402): > 5,000 mg/kg. - MSDS supplier

2-(2-Butoxyethoxy) ethanol : LD 50 - dermal rabbit 2,764 mg/kg. - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : LD 50 - oral (OECD 401): > 5,000 mg/kg.

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : LD 50 - oral rat 1,064 mg/kg. - MSDS supplier

##### Skin corrosion/irritation

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : Cutaneous contact (OECD 404): . Irritating - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : Cutaneous contact . Irritating - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides ( 30% ) : Skin corrosion/irritation rabbit (OECD 404): . Irritating - MSDS supplier

Sodium hydroxide ( 50% ) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier

Sodium hydroxide ( 50% ) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier

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### Serious damage to eyes/eye irritation

Sodium hydroxide ( 50% ) : Eye contact : . corrosive to the eyes - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : Eye irritation . Risk of serious damage of eyes - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : Eye irritation (OECD 405): . Risk of serious damage of eyes - MSDS supplier

2-(2-Butoxyethoxy) ethanol : Eye irritation . Causes serious eye irritation. - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides ( 30% ) : Serious damage to eyes/eye irritation rabbit (OECD 405): .

Causes burns. - MSDS supplier

Sodium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . corrosive to the eyes - MSDS supplier

Sodium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier

### Respiratory tracts irritation

Sodium hydroxide ( 50% ) : Respiratory tracts irritation . Fog inhalation is irritant for respiratory tract - MSDS supplier

### Sensitisation

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : Cutaneous contact (OECD 406): . Not sensitising - MSDS supplier

### Respiratory / skin sensitisation

2-(2-Butoxyethoxy) ethanol : Skin sensitisation guinea-pig . Not sensitising - MSDS supplier

### Mutagenicity

Sodium hydroxide : . Not mutagenic - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : (OECD 471): . Not mutagenic - MSDS supplier

### Carcinogenicity

Sodium hydroxide : mouse . Not carcinogenic - MSDS supplier

### SUBCHRONIC TOXICITY

Alcohols C12-C14, ethoxylates, sulphate, sodium salts : NOAEL - oral - 90days (OECD 408): > 225 mg/kg. - MSDS supplier

### Mix-related data:

#### Acute toxicity

. Not determined for the mixture.

#### Skin corrosion/irritation

Skin corrosivity . Corrosive to the skin

#### Serious damage to eyes/eye irritation

Ocular corrosivity . Risk of serious damage to eyes.

#### Respiratory / skin sensitisation

Skin sensitisation . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.

Respiratory sensitisation . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

#### Mutagenicity

. The classification criteria are not met given the available data.

#### Carcinogenicity

. The classification criteria are not met given the available data.

#### Reproductive toxicity

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - single exposure

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. The classification criteria are not met given the available data.

Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

Aspiration hazard

. The classification criteria are not met given the available data.

Most important symptoms and effects, both acute and delayed :

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Risk of perforating digestive tracts.

Inhalation : Aerosols can induce respiratory tracts irritation.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Not concerned

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

#### Substance-related data:

##### Acute toxicity

Sodium hydroxide : LC 50 - 96 h fishes (Gambusia affinis) 35 - 189 mg/L. - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : EC 50 - 48h daphnia 3.1 mg/L. - MSDS supplier

2-(2-Butoxyethoxy) ethanol : LC 50 - 96h fishes (Lepomis macrochirus) 1,300 mg/L. - MSDS supplier

2-(2-Butoxyethoxy) ethanol : LC 50 - 48h daphnia (Daphnia magna) > 100 mg/L. - MSDS supplier

2-(2-Butoxyethoxy) ethanol : EC 50 algae (Scenedesmus subspicatus) > 100 mg/L. - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : LC 50 fishes (Leuciscus idus) 10 - 100 mg/L. - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : EC 50 daphnia (Daphnia magna) (OECD 202): 10 - 100 mg/L. - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : EC 50 algae (Scenedesmus subspicatus) (OECD 201): > 100 mg/L. - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : IC 50 algae 0.143 mg/L. - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : LC 50 - 96h fishes 2.67 mg/L. - MSDS supplier

2-(2-Butoxyethoxy) ethanol ( 100% ) : EC 50 - 48hours daphnia (Daphnia magna) (OECD 202): 4,950 mg/L. - MSDS supplier

##### Chronic toxicity

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : NOEC fishes (Leuciscus idus) 1 - 10 mg/L. - MSDS supplier

Alcohols C12-C14, ethoxylates, sulphate, sodium salts : NOEC daphnia (Daphnia magna) 0.1 - 1 mg/L. - MSDS supplier

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : NOEC algae 0.067 mg/L. - MSDS supplier

##### Degradability

Sodium hydroxide ( 50% ) : Biodegradability aerobic . Not applicable - MSDS supplier

Sodium hydroxide ( 50% ) : Biodegradability anaerobic . Not applicable - MSDS supplier

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Sodium hydroxide ( 50% ) : Half life air 13 seconds. Degradation product = sodium carbonate - MSDS supplier  
Sodium hydroxide ( 50% ) : Water. . Instantaneous ionization; Degradation products : salts - MSDS supplier  
Sodium hydroxide ( 50% ) : soil . Ionization / neutralization - MSDS supplier  
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides : Biodegradability . Easily biodegradable. - MSDS supplier  
2-(2-Butoxyethoxy) ethanol : Biodegradability . Easily biodegradable. - MSDS supplier  
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides ( 30% ) : Biodegradability - 28days (OECD 301 D): > 90 %. Easily biodegradable. - MSDS supplier

#### Bioaccumulation

Sodium hydroxide ( 50% ) : . Not applicable - MSDS supplier  
2-(2-Butoxyethoxy) ethanol : . Not bioaccumulative - MSDS supplier

#### Mobility

Sodium hydroxide ( 50% ) : air . Instantaneous degradation - MSDS supplier  
Sodium hydroxide ( 50% ) : Water. . Important solubility and mobility - MSDS supplier  
Sodium hydroxide ( 50% ) : soil/sediments . Important solubility and mobility; Contamination of ground water in case of rain - MSDS supplier

#### Mix-related data:

##### Acute toxicity

fishes . No data available.  
daphnia . No data available.  
algae . No data available.

##### Chronic toxicity

. No data available.

##### Degradability

. The surface agents contained in this mix are in line with the requirements of the Detergent Regulation 648/2004/EC.

##### Bioaccumulation

. No data available.

##### Mobility

. No data available.

#### Conclusion:

The mixture is not considered to be dangerous for the environment according to 1272/2008/EC Regulation.

#### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

#### 12.6 Endocrine disrupting properties

Not concerned

#### 12.7. Other adverse effects

No additional information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

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#### 13.1. Waste treatment methods

##### Treatment of the mixture :

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

##### Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

#### SECTION 14: TRANSPORT INFORMATION

##### ROAD TRANSPORT: Rail/Route (RID/ADR)

14.1 UN number or ID number : 1824

14.2 UN proper shipping name :  
SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es) : 8

14.4 Packing group : III  
Hazard identification number : 80  
Label : 8



Tunnel code : (E)

14.5 Environmental hazards : No

14.6 Special precautions for user : No information.

Limited Quantity (QL): 5L

##### MARITIME TRANSPORT : IMDG

14.1 UN number or ID number :1824

14.2 UN proper shipping name : SODIUM HYDROXIDE SOLUTION

## OPTIMUM HEAVY DUTY CLEANER

Code: OPTK3

### Safety Data Sheet compliant with Regulation (EU) 2020/878

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14.3 Transport hazard class(es) : 8



14.4 Packing group : III

14.5 Environmental hazards

Marine pollutant : No

14.6 Special precautions for user : No information.

EmS number : F-A, S-B

Limited Quantity (QL): 5L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

## SECTION 15: REGULATORY INFORMATION

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

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :  
Not concerned

Regulations relating to the hazards from major accidents :  
SEVESO 3 Directive (2012/18/EC) : Not concerned

Regulations relating to the classification, packaging and labelling of substances and mixtures :  
Regulation (EC) 1272/2008 amended.

Waste regulations :  
2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC  
Decision 2014/955/EC which establishes the list of hazardous waste.

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 : Not concerned

Protection of workers :  
Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation (EC) 1005/2009 amended on substances that deplete the ozone layer : Not applicable

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Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:

Not concerned

Regulation (EC) 648/2004 :

In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.

Ingredient datasheet for the medical staff is available upon written request.

Contains :

< 5% Anionic surfactants, EDTA and salts thereof, Non-ionic surfactants, Polycarboxylates

Comply with national and local legislation.

UN Globally Harmonised System (GHS) on Classification and Labelling of Chemical (GB CLP - SI 2020 No. 1567) and UK REACH (SI 2020 No. 1577)

#### 15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

#### SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

List of H phrases referred to in section 3 :

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H318 : Causes serious eye damage.



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H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H373 : May cause damage to organs through prolonged or repeated exposure.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.

H412 : Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :  
MSDS supplier

Historical :

Version 7.0.1

Cancels and replaces previous version 7.0.