

# CHLORFOAM PLUS

Code: HLC61

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

Version **7.0.3**

Creation date : **09/12/22**

Revision: **29/12/22**

Print Date : 30/01/24

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

#### 1.1. Product identifier

Trade name	CHLORFOAM PLUS
UFI :	1T8H-E06Q-U008-MJ8F

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

Use of the product

LIQUID ALKALI  
FOOD INDUSTRY  
CHLORFOAM PLUS contains Caustic Soda (NaOH), Sodium Hypochlorite, foaming agents and a blend of sequestering agents and surfactants to inhibit scale formation and aid wetting, emulsification and foam stability.

#### 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).

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

Healthcare Professionals:  
+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	EUH 031: Contact with acids liberates toxic gas.
Skin corrosion - Category 1A	H290: May be corrosive to metals.
Serious damage to eyes - Category 1	H314: Causes severe skin burns and eye damage.
Hazardous to the aquatic environment – Acute - Category 1	H318: Causes serious eye damage.
Hazardous to the aquatic environment – Chronic - Category 2	H400: Very toxic to aquatic life.
	H411: Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :  
Danger

Contains : Sodium hydroxide+ Sodium hypochlorite+ Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

Hazard statement(s) :

H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
H410: Very toxic to aquatic life with long lasting effects.  
EUH 031: Contact with acids liberates toxic gas.

# CHLORFOAM PLUS

Code: HLC61

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

Version **7.0.3**

Creation date : **09/12/22**

Revision: **29/12/22**

Print Date : 30/01/24

---

### Precautionary statement(s) :

P234: Keep only in original packaging.

P273: Avoid release to the environment.

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

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

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P313: Get medical advice/attention.

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

### 2.3. Other hazards

The mixture does not contain substance of "Very high Concern" (SVHC) in the candidate list of substances for Authorisation published and updated regularly by ECHA in concentration greater than 0.1%. The mixture does not contain any substance responding to criteria for classification as PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2006.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable as this involves a mixture.

### 3.2. Mixtures

Chemical nature of the mixture : LIQUID ALKALI

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
5% <= Sodium hydroxide < 10%	1310-73-2	215-185-5	011-002-00-6	01-2119457892-27	Skin Corr. 1A H314 Met. Corr. 1 H290	C ≥ 5% Skin Corr. 1A H314 2% ≤ C < 5% Skin Corr. 1B H314 0.5% ≤ C < 2% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1)
1% <= Sodium hypochlorite < 10%	7681-52-9	231-668-3	017-011-00-1		Met. Corr. 1 H290 Skin Corr. 1B H314 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 EUH 031 Eye Dam. 1 H318	C ≥ 5% EUH 031 M Factor (Acute) 10 M Factor (Chronic) 1	(1)
1% <= Sodium (xylenes and 4-ethylbenzene)sulfonates < 5%	1300-72-7	701-037-1			Eye Irrit. 2 H319		(1)
1% <= Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides < 5%	308062-28-4	931-292-6		01-2119490061-47	Acute Tox. 4 (oral) H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 2 H411	M Factor (Acute) 1	(1)
1% <= Sodium Octanoate < 5%	1984-06-1	217-850-5			Skin Irrit. 2 H315 Eye Irrit. 2 H319		(1)
0.1% <= Alcohols C12-C14, ethoxylates, sulphate, sodium salts < 1%	68891-38-3	500-234-8		01-2119488639-16	Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 3 H412		(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

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

---

### 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 :

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
Put into practice respiratory help procedure if needed and get medical advice immediately.

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

If symptoms occur, call the Poison Control Centre or a doctor.  
Take off immediately all contaminated clothing.  
Wash immediately with plenty of water for 15 minutes at least.

### 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.  
Consult a specialist.  
Remove contact lenses if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

### In the event of ingestion :

Rinse mouth.  
Do NOT induce vomiting.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Can induce mouth and digestive tract irritation .

Inhalation : May cause a respiratory system 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.

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

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

CHLORFOAM PLUS is non-flammable.

However, in contact with certain metals (aluminium, zinc, copper...), release of hydrogen whose mixtures with air are explosive.

The thermal decomposition can release/form:

Corrosive vapours

### 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 :

Wear suitable protective clothing.

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.

Informing the authorities if the product penetrates in the sewers or in the waters of the public domain.

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

Small spillage :

Absorb with an inert, non-combustible absorbent material, such as sand, earth, vermiculite or diatomaceous earth.

Large spillage :

Mark out 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.

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Take off immediately all contaminated clothing.

Wear suitable protective clothing.

Do not eat, drink or smoke in work area. Avoid projections during use.

#### 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, cool and well-ventilated place away from sources of heat and intense light.

Storage in the original, closed packaging, between +5°C and +30°C.

The floor of rooms will be impermeable and will form a retention basin so that the liquid cannot spread outside if spilled accidentally.

##### 7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

#### 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
Sodium hydroxide	1310-73-2	IRL	OEL Short term	2	mg/m <sup>3</sup>	15 minutes reference period	International limit values for chemical agents

#### 8.2. Exposure controls

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 :

## CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

---

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:

Natural rubber.

Neoprene.

PVC



Skin protection :

Wear chemical-resistant protective shoes and clothing.

In weak spraying, wear boots or half-boots which protect from chemical risk that comply with standard NF EN 13832-2.



Respiratory protection :

Always wear approved respiratory protection if the workplace exposure limit is likely to be exceeded.

During use that causes vapours or aerosols to form, wear a half-mask compliant with standard EN 140 or a full mask compliant with standard EN 136 fitted with a filter (compliant with standard EN 143) of type:

Filtration type B-P

P3: Particles, solid aerosols and liquids



Thermal hazards :

Not applicable

Health measures :

Safety shower and eye wash fountain near to workplace.



# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

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 yellow liquid
Colour	Yellow
Odour	bleach
Odour threshold	Not available
Freezing point	Not available
Melting point	Not applicable
Boiling point	Not available
Flammability	Not available
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH value at 10g/l	11.5 - 12.5
Pure pH (20°C)	> 13
kinematic viscosity	Not available
Solubility	Persistent, Bioaccumulative and Toxic properties
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Relative density (20°C)	1.19
Mass density (20°C)	1.19 g/cm³
Vapour density	Not available
Particle characteristics	Not applicable

### 9.2. Other information

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

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable in the recommended storage and handling conditions.

### 10.2. Chemical stability

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

Stable in the recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Exothermic reactions with acids.

### 10.4. Conditions to avoid

Excessive heat (>50°C)

### 10.5. Incompatible materials

Acids.

Light metals and/or colored.

### 10.6. Hazardous decomposition products

In presence of metal, release of hydrogen that is flammable and/or explosive if it catches fire.

Contact with acids liberates gaseous chlorine.

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

Alcohols C12-C14, ethoxylates, sulphate, sodium salts ( 28% ) : LD 50 - dermal (OECD 402): > 5,000 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

Sodium chlorate + Sodium hydroxide + Sodium hypochlorite + Sodium carbonate ( 15% ) : LD 50 - oral male rat (OECD 401):

1,100 mg/kg. - MSDS supplier

Sodium chlorate + Sodium hydroxide + Sodium hypochlorite + Sodium carbonate ( 15% ) : LD 50 - dermal rabbit (OECD 402):

> 20,000 mg/kg. - MSDS supplier

Sodium chlorate + Sodium hydroxide + Sodium hypochlorite + Sodium carbonate ( 15% ) : LC 50 - inhalation - 1 hours male rat (OECD 403): 10.5 mg/L. - 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

#### 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

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

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

---

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

Sodium hypochlorite ( 15% ) : guinea-pig (OECD 406 Buehler assay): . 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

#### Specific target organ toxicity - repeated exposure

Sodium hypochlorite ( 15% ) : NOAEL - oral - 90days male rat (OECD 408): 50 mg/kg bw day. - MSDS supplier

Sodium hypochlorite ( 15% ) : NOAEL - oral - 90days female rat (OECD 408): 57.2 mg/kg bw day. - MSDS supplier

Sodium hypochlorite ( 15% ) : LOAEL- inhalation - 30days rat (OECD 412):  $\leq 3$  mg/m<sup>3</sup>. - 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 . The mix is considered to be corrosive for the skin under the criteria of Regulation 1272/2008/EC.

##### Serious damage to eyes/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

##### 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

. 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.

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

### 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 : Can induce mouth and digestive tract irritation .

Inhalation : May cause a respiratory system 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

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

Sodium hypochlorite ( 15% ) : LC 50 - 96hours fishes 0.06 mg/L. - MSDS supplier

Sodium hypochlorite ( 15% ) : EC 50 - 48hours daphnia (Daphnia magna) (OECD 202): 141 µg/l. - MSDS supplier

Sodium hypochlorite ( 15% ) : EC 50 (Algae (fresh water)) 0.1 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

Sodium hypochlorite ( 15% ) : NOEC - 28days fishes (Menidia peninsulae) 0.04 mg/L. - MSDS supplier

Sodium hypochlorite ( 15% ) : NOEC shellfishes 0.007 mg/L. - MSDS supplier

Sodium hypochlorite ( 15% ) : NOEC (Algae (fresh water)) 0.002,1 mg/L. - MSDS supplier

##### Degradability

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

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

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

## CHLORFOAM PLUS

Code: HLC61

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

Version **7.0.3**

Creation date : **09/12/22**

Revision: **29/12/22**

Print Date : 30/01/24

---

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

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 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

#### 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/

## CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

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 : 1719

14.2 UN proper shipping name :

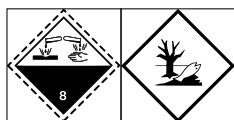
CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hydroxide + Sodium hypochlorite)

14.3 Transport hazard class(es) : 8

14.4 Packing group : II

Hazard identification number : 80

Label : 8



Tunnel code : (E)

14.5 Environmental hazards : Yes (Sodium hypochlorite)

14.6 Special precautions for user : No information.

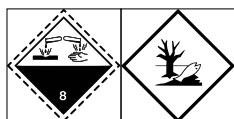
Limited Quantity (QL): 1L

##### MARITIME TRANSPORT : IMDG

14.1 UN number or ID number :1719

14.2 UN proper shipping name : CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hydroxide + Sodium hypochlorite)

14.3 Transport hazard class(es) : 8



## CHLORFOAM PLUS

Code: HLC61

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

Version **7.0.3**

Creation date : **09/12/22**

Revision: **29/12/22**

Print Date : 30/01/24

---

14.4 Packing group : II

14.5 Environmental hazards

Marine pollutant : Yes (Sodium hypochlorite)

14.6 Special precautions for user : No information.

EmS number : F-A, S-B

Limited Quantity (QL): 1L

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) : E1

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

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.

# CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

---

Contains :

< 5% Chlorine-based bleaching agents, Anionic surfactants, Polycarboxylates, Non-ionic surfactants

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 :

EUH 031 : Contact with acids liberates toxic gas.

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.

H319 : Causes serious eye irritation.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

H411 : Toxic to aquatic life with long lasting effects.



## CHLORFOAM PLUS

Code: HLC61

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

Version 7.0.3

Creation date : 09/12/22

Revision: 29/12/22

Print Date : 30/01/24

---

H412 : Harmful to aquatic life with long lasting effects.

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

Historical :

Version 7.0.3

Cancels and replaces previous version 7.0.2