

FIRENET
1. Identification of the substance/mixture and of the company/firm
1.1. Product Identifier

 Trade name : **FIRENET**
 ISS Code : **FIRE-2**
1.2. Relevant identified uses of the substance or mixture and uses advised against

 Consumer use [SU21], Professional use [SU22]: **Foaming cleanser for edible fats**
 Uses advised against : **All those not expressly specified in the label**
1.3. Details of the Supplier on the Safety Data Sheet

 FACOT CHEMICALS snc - Via Crema, 44 - 26010 CAPRALBA (CR), Italy
 ph. 0373 450642 - fax 0373 450751 - e.mail: info@facot.it
 e-mail of referee: msds@facot.it
1.4. Emergency telephone number

 If necessary, the telephone numbers active 24 hour 24 of some poison centres are available at: www.salute.gov.it/servizio/documenti/centri_antiveleni.pdf

FLORENC	Poisons Information Center of Florence	(www.antiveleni.altervista.org)	055	7947819
E				
GENOA	Poison Centre		010	56361245
MILAN	Poison Center	(www.centroantiveleni.org)	02	66101029
NAPLES	Poison Centre Cardarelli Hospital	(www.ospedalecardarelli.it/ospedale/centro-anti-veleni)	081	7472870
PADUA	Poison Centre		049	8275078
PAVIA	IRCCS Fondazione S.Maugeri	(www.cavpavia.it)	0382	24444
ROME	Poison Centre Policlinico Gemelli	(www.tox.it)	06	3054343
ROME	Poison Center, University "La Sapienza"	(w3.uniroma1.it/cav_cartella)	06	49970698
TURIN	Poison Center		011	6637637

2. Identification of hazards
2.1. Classification of the substance or mixture
2.1.1 Classification within the meaning of Regulation (CE) No.
1272/2008 Symbols : GHS05

Class codes and category of danger: Skin Corr. 1A

Hazard statements codes : H314 - Causes severe skin burns and severe eye lesions.

2.1.2 Adverse effects

Corrosive product: causes severe skin burns and severe eye lesions.

2.2. Elements of label
Labelling in accordance with Regulation (CE) no. 1272/2008:
Symbols : GHS05

Warning code : Danger

Hazard statements codes : H314 - Causes severe skin burns and severe eye lesions.

Other hazard statements: Not applicable

General precautionary statements

P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of the reach of children.

Prevention

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

Reaction

P301 + P330 + P331 – IF SWALLOWED: rinse mouth. DO NOT induce vomiting.

P303+P361+P353 – IN CASE OF CONTACT WITH THE SKIN (or with hair): take off immediately all contaminated clothing

Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: rinse continuously 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.

Conservation

P405 – Store locked up.

Disposal

P501 - Dispose of the product/container to an authorized collection centre.

Contains: potassium hydroxide.
2.3. Other hazards

If the product is supplied to public/consumer, packaging shall be equipped with child safety lock and must bear a warning symbol in relief, recognisable by touch.

The substance/mixture contains NO substances classified as PBT/vPvB pursuant to Regulation (EC) 1907/2006, Annex XIII.

3.1. Substances

Not relevant

3.2. Mixtures

Refer to point 16 for the full text of hazard statements.

Substance	Concentration	Classification	CAS	EINECS	REACH
Potassium hydroxide	> 5 ≤ 10%	Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1A, H314	1310-58-3	215-181-3	01-2119487136-33
(2-methoxymethyl ethoxy) propanol	> 5 ≤ 10%	Substance with exposure limits in the working environment	34590-94-8	252-104-2	01-2119450011-60
2,2',2''-nitriolotriethanol	> 5 ≤ 10%	Substance with exposure limits in the working environment	102-71-6	203-049-8	01-2119486482-31
Amides, coco, N,N-bis(hydroxyethyl)	> 1 ≤ 3%	Skin Irrit. 2, H315; Eye Dam. 1, H318	68603-42-9	271-657-0	--
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	> 1 ≤ 3%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 3, H412	68411-30-3	270-115-0	01-2119489428-22


HAZARD


4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the room. Remove the victim immediately from the contaminated area and keep at rest in a well-ventilated room. Seek medical advice if feeling unwell.

Direct contact with the skin (of the pure product):

Take off all contaminated clothing immediately. Rinse immediately with plenty of water and in case soap the areas of the body that has come in contact with the product, even if only suspected.

Direct contact with the eyes (of the pure product):

SEEK MEDICAL ADVICE. Remove the contact lenses, if any and easy to do. Rinse immediately and thoroughly for at least 15 minutes with tap water keeping the eyes open; then protect your eyes with sterile pad or a clean, dry cloth.

Ingestion:

SEEK MEDICAL ADVICE, showing the safety data sheet. Do not induce vomiting and do not administer anything without the expressed opinion of the physician.

4.2. Main symptoms and effects, both acute and delayed

No data available

4.3. Indication of whether there is a need to consult a doctor immediately and special treatments

See point 4.1 Description of first aid measures.

5. Fire-Fighting Measures

5.1. Extinguishing means

Recommended extinguishing means: : Chemical powder, foam, water spray, carbon dioxide, depending on the materials involved in the fire.

Extinguishing means to avoid : No one in particular.

5.2. Special dangers arising from the substance or mixture

Do not breathe the fumes. The thermal decomposition generates fumes which may be harmful to health.

5.3. Recommendations for firefighters

Use protective clothing for the respiratory tract, the eyes and the skin. The water spray can be used to disperse the vapors and protect the people involved in the extinction. It is also recommended to use breathing apparatus, especially if you work indoors and in poorly ventilated spaces.

6. Measures in case of accidental release.

6.1. Personal precautions, protective equipment and procedures in case of emergency

For those who do not intervene directly: Move away from the area surrounding the spill or leak. Do not smoke.

For those who intervene directly : General information: Use suitable personal protective equipment as indicated in Section 8.

Precautionary measures addressed to individuals: Wear protective equipment. Move away unprotected persons.

6.2. Environmental precautions

Contain the spill with earth or sand. Prevent the product from flowing into sewer systems, surface waters or groundwater and soil. If the product has flowed in large amounts in a water course or has contaminated soil or vegetation, contact the authorities.

6.3. Methods and materials for containment and remediation

Collect the product for possible reuse or disposal. After collection, wash with plenty of water the area and the materials involved preventing that waste materials from penetrating into sewers, surface waters or groundwater and soil.

6.4. Reference to other sections

Refer to points 8 and 13 for further information

7. Handling and storage

7.1. Precautions for safe handling

Normal precautions in handling chemicals; operate in such a way as to avoid contact and inhalation. Do not smoke, eat, do not drink during handling.

7.2. Conditions for the secure storage, including any incompatibility

Keep in the original packing, in a cool, ventilated place, away from heat. Keep containers close when the product is not used.

7.3. Specific end uses

Data not available.

8. Exposure controls/personal protection

8.1. Control parameters

Substance: Potassium hydroxide

TLV/STEL: 2 mg/m³ (Ceiling value) (ACGIH 2014).

DNEL

Long term effects - systemic effects, Workers Inhalation = 1 (mg/m³)

Local Effects Long term effects Workers Inhalation = 1 (mg/m³)

Substance: (2-methoxymethylethoxy)propanol

VME 300 mg/m³ = 50 ppm - VLE 300 mg/m³ = 50 ppm - (SUVA/2016)

LTE mg/m³(8h): 308 = 50 ppm - (UE)

ITALY - limit value (8h): 308 mg/m³ = 50 ppm - Notes: Skin

DNEL

Long term effects - systemic effects, Workers Inhalation = 308 (mg/m³)

Systemic effects long term Workers Dermal = 283 (mg/kg bw/day)

Systemic effects long term Consumers Inhalation = 37.2 (mg/m³)

Systemic effects long term Consumers Dermal = 121 (mg/kg bw/day)

Systemic effects long term Consumers Oral = 36 (mg/kg bw/day)

PNEC

Fresh water = 19 (mg/l)

Fresh water sediments = 70.2 (mg/kg/sediment)

Freshwater sediments =

1,9 (mg/kg/sediment) Sea water = 7.02 (mg/kg/Sediments)

Intermittent emissions =

190 (mg/l)

STP = 4168 (mg/l) Ground

= 2.74 (mg/kg Ground)

Substance: 2,2',2"-nitrotriethanol

VME 5 mg/m³ - VLE 20 mg/m³ - (SUVA/2016)

DNEL

Long term effects - systemic effects, Workers Inhalation = 5 (mg/m³)

Systemic effects long term Workers Dermal = 6,3 (mg/kg bw/day)

Systemic effects long term Consumers Inhalation = 1,25 (mg/m³)

Long-term systemic effects Consumers Dermal = 3.1 (mg/kg bw/day)



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 Long-term systemic effects Consumers Oral = 13 (mg/kg bw/day)
 Local effects Long term Consumers Inhalation = 1.25 (mg/m³)

 Local effects Long term Workers Inhalation = 5 (mg/m³)

PNEC

Fresh water = 0.32 (mg/l)

Fresh water sediments = 1.7 (mg/kg/sediment)

Freshwater sediments =

0,032 (mg/kg/sediment) Sea water = 0.17 (mg/kg/Sediments)

STP = 10 (mg/l)

Ground = 0.151 (mg/kg Ground)

Substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts DNEL

 Long term effects - systemic effects, Workers Inhalation = 6 (mg/m³)

Systemic effects long term Workers Dermal = 85 (mg/kg bw/day) Systemic

 effects long term Consumers Inhalation = 1.5 (mg/m³)

Systemic effects Long term Consumers Dermal = 42.5 (mg/kg bw/day)

 Systemic effects Long term Consumers Oral = 0.425 (mg/ kg bw/day) Local effects Long term Workers Inhalation = 6 (mg/m³)

 Local Effects Long term effects Consumers Inhalation = 1.5 (mg/m³)

PNEC

Fresh water = 0.268 (mg/l)

Fresh water sediments = 8.1 (mg/kg/sediment)

Freshwater sediments =

0,027 (mg/kg/sediment) Sea water = 6.8 (mg/kg/Sediments)

Intermittent emissions =

0.017 (mg/l)

STP = 3.43 (mg/l)

Ground = 35 (mg/kg Ground)

8.2. Exposure controls
Personal protection measures
a) Eye/ face protection

Use goggles with side shields according to EN 166.

b) Skin protection
i) Hand protection

Wear waterproof gloves compliant with standard EN374-1, -2 and -3 (i.e. nitrile minimum thickness 0.35 - neoprene/latex minimum thickness 0.5). Depending on the time of contact, use gloves with suitable PI (Permeation Index) The gloves must be checked before being use. Use a proper technique for removing the gloves (without touching the outside of the glove) to avoid skin contact with contaminated outer surface of the glove.

ii) Other

When handling the pure product wear suitable protective clothing.

c) Respiratory protection

Operate in suitably ventilated areas. Under normal conditions of use it is not necessary the use of personal protective equipment. If used in confined spaces with insufficient ventilation, use respiratory protection in accordance with UNI EN 529:2006 (Respiratory protection devices - Recommendations for selection, use, care and maintenance - Guidelines) by establishing the proper FPO value "Operational protection factor".

d) Thermal hazards

Avoid exposure to naked flames.

Exposure Controls environment:

Avoid release to the environment

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value
Appearance	Pale yellow liquid
Odour	Minor
Olfactory threshold	Not available
pH at 20°C	12.5 + 0.5 sol. 1%
Melting point/freezing point	Not available
Boiling point/range	~ 100°C
Flash point	Non-flammable
Evaporation rate	Not available
Flammability (solid/gas)	Not relevant
Upper/lower flammability limit	Not available
Vapor pressure at 20 °C	Not available
Vapor density	Not available
Relative density at 15°C	1.090 ± 0.020 g/cm ³
Solubility	Not available
Water solubility	Soluble
N-octanol/water partition coefficient	Not available
Self-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity at 20°C	Not available
Explosive properties	Not available
Oxidizing properties	Non-oxidising

9.2. Other Information

No other data available

10. Stability and reactivity
10.1. Reactivity

Stable under normal conditions of use and following the directions for use recommended

10.2. Chemical stability

Stable under normal conditions of use. Exposure to direct sunlight may cause discoloration.

10.3. Possibility of dangerous reactions

None under recommended conditions of use.

10.4. Conditions to avoid

Do not mix with other chemicals.



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10.5. Incompatible materials

Chemical products in general, strong acids, light metal dust

10.6. Hazardous decomposition products

Under normal conditions of use and storage, the product does not decompose.

11. Toxicological Information**11.1. Information on toxicological effects**

ATE(mix) oral = 5,000.0 mg/kg
ATE(mix) dermal = not available
ATE(mix) inhal = not available

- a) Acute toxicity : On the basis of available data, the classification criteria are not met
b) corrosion / irritation of the skin : Corrosive product: causes severe skin burns and severe eye lesions.
c) severe ocular lesions / irritation : Corrosive product: causes severe eye lesions.
d) of the respiratory tract or the skin : On the basis of available data, the classification criteria are not met
e) Germ cell mutagenicity : On the basis of available data, the classification criteria are not met
f) Carcinogenicity : On the basis of available data, the classification criteria are not met
g) Reproductive toxicity : On the basis of available data, the classification criteria are not met
h) On the basis of available data, the classification criteria are not met h) Specific target organ toxicity (STOT) single exposure:
i) On the basis of available data, the classification criteria are not met h) Specific target organ toxicity (STOT) repeated exposure:
j) Risk of aspiration : On the basis of available data, the classification criteria are not met

Related to the substances

contained: **Potassium hydroxide**

ROUTES OF EXPOSURE

: The substance can be absorbed into the body by inhalation and ingestion.

RISKS BY INHALATION

: Evaporation at 20° C is not relevant; a harmful concentration of particles dispersed in the air can be reached quickly.

EFFECTS OF SHORT TERM EXPOSURE
respiratory

: Corrosive. The substance is very corrosive to the eyes the skin and the

tract. Corrosive if swallowed. Inhalation of aerosols of this substance can cause pulmonary oedema (see Notes).

: REPEATED OR PROLONGED CONTACT MAY CAUSE DERMATITIS.

EFFECTS OF REPEATED OR LONG-TERM EXPOSURE**ACUTE RISKS/ SYMPTOMS**

INHALATION Corrosive. A burning sensation. Sore throat. Cough. Breathing difficulties. Shortness of breath. Symptoms may be delayed (see Notes).

SKIN Corrosive. Redness. Pain. Severe Skin burns. Blisters. EYES Corrosive. Redness. Pain. Blurred vision. Severe deep burns.

INGESTION Corrosive. A burning sensation. Abdominal pain. Shock or collapse.

NOTES The exposure limit value must not be exceeded in any moment of occupational exposure. Usually, the symptoms of pulmonary oedema appear only after a few hours and are aggravated by physical effort. The patient must rest and be kept under medical observation.

(2-methoxymethylethoxy)propanol

LD50 Oral (rat) = 5000 mg/kg of body weight
LD50 Skin (rat or rabbit) = 2000 mg/kg of body weight

12. Ecological Information**12.1. Toxicity**

Use according to good working practices and dispose of carefully.

12.2. Persistence and degradability

The surfactants contained in this formula comply with biodegradable criteria established by law (EC) no. 648/2004 on detergents. All the supporting data shall be kept available to the competent authorities of the Member States and will be produced to the same upon express request or at the request of a manufacturer of the formulation.

12.3. Potential for bioaccumulation

Data not available.

12.4. Mobility in ground

Data not available.

12.5. Results of PBT and vPvB evaluation

The substance/mixture contains NO substances classified as PBT/vPvB pursuant to Regulation (CE) 1907/2006, Annex XIII

12.6. Other adverse effects

Data not available.

13. Disposal Considerations.**13.1. Methods of waste treatment**

Do not reuse empty containers. Dispose of waste in accordance with current regulations. Any waste should be disposed of in accordance with existing regulations by contacting authorized companies.

REGULATION (EU) N. 1357/2014 - WASTE: HP8 - Corrosive

14. Transport Information.**14.1. UN Number**

1719

Any ADR exemption (by affixing the label to the side) if the following characteristics are met: Combined packaging:

inner packing 1 l pack of 30 Kg

Inner packaging secured in trays with shrink or extensible film: inner package 1 l pack of 20 Kg

14.2. ONU shipping name

CAUSTIC ALKALINE LIQUID N.A.S. (Potassium hydroxide)



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14.3. Danger Classes connected to the transport

Class 8
 Label 8
 Code of restriction in tunnels : E
 quantities limited
 : : 1 L
 EmS : F-A, S-B



14.4. Packaging group

II

14.5. Dangers for the environment

Product dangerous to the environment :

Sea contaminant NO : NO

14.6. Special precautions for users

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the requirements of the current edition of the A.D.R. agreement and applicable national regulations.

Products should be transported in their original packaging and in any case in packages that are made from materials resistant to their content and unlikely to cause dangerous reactions with it. The staff in charge with loading and unloading of dangerous goods must

have attended appropriate training on the risks associated with the preparation and on any procedures to be implemented in the event of an emergency

14.7. Bulk transport according to Annex II of MARPOL 73/78 and the IBC code

Transport in bulk not provided

15. Regulatory Information.

15.1. Standards and legislation on health, safety and environment specific for the substance or the mixture

Law Decree 09/04/2008 n° 81 - TITLE IX Chapter II

It does not contain carcinogens pursuant to Art.234 .

In order to use this product, the employer must carry out the "Risk assessment" according to the provisions of Leg. Decree April 9, 2008

no. 81. Workers exposed to this chemical agent must not be subjected to health surveillance if the outcome of the risk assessment shows that, in relation to the type and quantity of a dangerous chemical agent and the mode and frequency of exposure to this agent, there is only a "moderate risk" for health and safety of workers and that the measures provided for in the same Decree are sufficient to reduce the risk.

Law Decree of Government no. 52, dated 03 /02/1977

(Implementation of Directive 92/32/CEE on classification, packaging and labelling of dangerous substances).

Law Decree of Government no. 25, dated 02/02/2002

(Implementation of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at workplace).

DM of 26 02/02/ 2004

(Definition of a first list of indicative occupational exposure limit values for chemical agents).

Regulation (CE) no. 1907/2006 Of the European Parliament and of the Council dated December 18, 2006

Concerning the registration, evaluation, authorisation and restriction of chemicals (REACH), establishing a European agency for chemical substances, amending Directive 1999/45/CE and repealing Regulation (EEC) n. 793/93 Of the Council and the Regulation (CE) no 1488/94 Of the Commission and the Council Directive 76/769/EEC, the directives of the Commission 91 /155/CEE , 93 67/67 , 93 /105/CE and **Regulation (CE) no. 1272/2008 Of the European Parliament and of the Council dated December 16, 2008**

With regard to classification, labelling and packaging of substances and mixtures, amending and revoking Directive 67/548/EEC and 1999 /45/CE and amending Regulation (EC) no. 1907/2006. 1907/2006.

Regulation (CE) no. 790/2009 Of the Commission dated August 10, 2009

Amending, for the purposes of adaptation to technical and scientific progress, of Regulation (CE) n. 1272/2008 of the European Parliament and The Council on classification, labelling and packaging of substances and mixtures.

Regulation (CE) no. 648/2004 of the European Parliament and of the Council dated December 31, 2004

On detergents.

5-15%: anionic surfactants; <5%: non-ionic and amphoteric surfactants

15.2. Chemical Safety Assessment

Chemical safety assessment not provided.

16 Other Information

16.1. Other Information

Description of hazard phrases set out in point 3 H290 =

Can be corrosive to metals.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and severe ocular lesions.

H315 = Causes skin irritation

H318 = Causes serious eye damage

H412 = Harmful to aquatic organisms with long-term effects. Classification based

on the data of all the components of the mixture MAIN BIBLIOGRAPHIC SOURCES

ACGIH - American Conference of Governmental Industrial Hygienists

CheLIST - Chemical Lists Information System

ECHA - European Chemicals Agency

IARC - International Agency for Research on Cancer

IPCS - International Programme on Chemical Safety (Cards)

NIOSH - Registry of toxic effects of chemical substances (1983)

OSHA - European Agency for Safety and Health at Work

TOXNET - Toxicology Data Network

WHO - World Health Organization

Safety data sheet as per Regulation (UE) 2015/830 of 29 May 2015 and subsequent amendments





MATERIAL SAFETY DATA

FIRENET

Doc. SDS_CLP830_00-IT-FIRE-2-Rev.04_2017-08-02

Issued on 01/04/2005

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This safety data sheet fully replaces all previous versions.

The information in this safety data sheet were obtained using the best information available on the date of revision specified herein. Neither the owner Company nor the subsidiary companies will accept complaints arising from improper use of the information given herein or by improper use of the product. Pay particular attention when using the preparation because an improper use may increase the hazard.

FACOT CHEMICALS snc – tel. 0373



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