



SAFETY DATA SHEET

FORNI SUPER BR

Issued on 07/04/2014 - Rel. # 3 on 29/10/2020

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In conformity to Regulation (EU) 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : FORNI SUPER BR
Trades code : 30107N

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

Detergent for self-cleaning oven
Sectors of use:
Industrial Manufacturing[SU3]

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Medusa s.r.l.
Via Dell'Artigianato 2/4
35023 Bagnoli di Sopra (PD)
Tel. +39 049 5352393
Fax +39 049 7423107
Email: info@medusasrl.com

Persona competente responsabile della scheda di dati di sicurezza: michele.zerbetto@gmail.com

1.4. Emergency telephone number

Centro Antiveleni - Azienda Ospedaliera "A. Cardarelli" - Napoli - tel +39 081.5453333 - +39 081.7472870
Centro Antiveleni - Ospedale Pediatrico Bambino Gesù - Roma - tel +39 0668593726
Centro Antiveleni - Policlinico Umberto I - Roma - tel +39 (06) 49978000
Centro Antiveleni - Policlinico A. Gemelli - Roma - tel +39 (06) 3054343
Centro Antiveleni - Azienda Ospedaliera "Careggi" - Firenze - tel +39 0557947819
Centro Antiveleni - Centro Nazionale di Informazione Tossicologica - Pavia - tel +39 038224444
Centro Antiveleni - Ospedale Niguarda Ca' Granda - Milano - tel +39 0266101029
Centro Antiveleni - Ospedali Riuniti - Bergamo - tel 800883300
Centro Antiveleni - Azienda Ospedaliera Universitaria di Foggia - Foggia tel 800183459

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS05

Hazard Class and Category Code(s):
Met. Corr. 1, Skin Corr. 1, Eye Dam. 1

Hazard statement Code(s):
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.



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The product can be corrosive to metals
Corrosive product: causes severe skin burns and eye damage.
If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS05 - Danger



Hazard statement Code(s):
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

Prevention

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

Response

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

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

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

P310 - Immediately call a POISON CENTER/doctor

Disposal

P501 - Dispose of contents/container to local/national/international normativity

Contains:

Sodium Hydroxide, tetrasodium ethylenediaminetetraacetate

Contains (Reg. EC 648/2004):

5% < 15% EDTA and salts thereof, < 5% phosphonates, polycarboxylates

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards
For professional use only

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements



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Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Sodium Hydroxide	>= 10 < 20%	Met. Corr. 1, H290; Skin Corr. 1A, H314 Limits: Skin Corr. 1A, H314 %C >=5; Skin Corr. 1B, H314 2<= %C <5; Skin Irrit. 2, H315 0,5<= %C <2; Eye Irrit. 2, H319 0,5<= %C <2;	011-002-00-6	1310-73-2	215-185-5	01-211945 7892-27-xx xx
tetrasodium ethylenediaminetetraacetate	>= 5 < 10%	Acute Tox. 4, H302; Eye Dam. 1, H318; Acute Tox. 4, H332; STOT RE 2, H373	607-428-00-2	64-02-8	200-573-9	01-211948 6762-27-xx xx

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing immediately off.
In case of contact with skin, wash immediately water
Consult a physician immediately

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately
Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Drink water with egg white; do not give bicarbonate.
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

No data available.

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

Immediately call a POISON CENTER/doctor

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.



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5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

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

In residential areas do not use on large surfaces.

At work do not eat or drink.

See also paragraph 8 below.



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7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:
Handle with extreme caution.
Store in a well ventilated place away from heat sources.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Sodium Hydroxide:

Limit values for professional exposure

Type of limit value (country of origin): TLV / TWA (EC)

Limit value: 2 mg / m³

Annotation: ACGIH

Version:

DNEL / DMEL and PNEC values

DNEL / DMEL

Limit value type: DNEL Consumer (local)

Exposure routes: Inhalation

Exposure Frequency: Long-term (repeated)

Limit value: 1 mg / m³

Limit value type: DNEL worker (local)

Exposure routes: Inhalation

Exposure Frequency: Long-term (repeated)

Limit value: 1 mg / m³

tetrasodium ethylenediaminetetraacetate:

Limit values for professional exposure

Type of limit value (country of origin): TLV / TWA (EC)

Parameter: Inhalable fraction

Limit value: 10 mg / m³

Version:

Type of limit value (country of origin): TLV / TWA (EC)

Parameter: Breathable fraction

Limit value: 3 mg / m³

Version:

DNEL / DMEL and PNEC values

DNEL / DMEL

Limit value type: DNEL Consumer (local)

Exposure routes: Inhalation

Exposure Frequency: Long-term (repeated)

Limit value: 0.6 mg / m³

Limit value type: DNEL Consumer (local)

Exposure routes: Inhalation

Exposure frequency: Short-term (acute)

Limit value: 1.2 mg / m³

Limit value type: DNEL Consumer (systemic)

Exposure route: Oral

Exposure Frequency: Long-term (repeated)

Limit value: 25 mg / kg bw / day

Limit value type: DNEL worker (local)

Exposure routes: Inhalation

Exposure Frequency: Long-term (repeated)



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Limit value: 1.5 mg / m³
Limit value type: DNEL worker (local)
Exposure routes: Inhalation
Exposure frequency: Short-term (acute)
Limit value: 3 mg / m³
PNEC
Limit value type: Aquatic PNEC, fresh water
Limit value: 2.2 mg / l
Limit value type: Aquatic PNEC, periodic release
Limit value: 1.2 mg / l
Limit value type: Water PNEC, marine water?
Limit value: 0,22 mg / l
Limit value type: PNEC ground
Limit value: 0.72 mg / kg
Limit value type: PNEC purification plant (STP)
Limit value: 43 mg / l

- Substance: Sodium Hydroxide
DNEL
Local effects Long term Workers inhalation = 1
Local effects Long term Consumers inhalation = 1 (mg/m³)

8.2. Exposure controls

Appropriate engineering controls:
Industrial Manufacturing:
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection
Wear mask

(b) Skin protection

(i) Hand protection
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other
When handling the pure product wear full protective skin clothing.

(c) Respiratory protection
Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Use according to good working practices to avoid pollution into the environment.



SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties



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Physical and chemical properties	Value	Determination method
Appearance	Clear liquid	
Odour	amber	
Odour threshold	characteristic	
pH	not determined	
Melting point/freezing point	13,00 +/- 1,00	
Initial boiling point and boiling range	not determined	
Flash point	not determined	
Evaporation rate	nonflammable	ASTM D92
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	nonflammable	
Vapour pressure	nonflammable	
Vapour density	not determined	
Relative density	not determined	
Solubility	1,1 gr/cm ³	
Water solubility	in water	
Partition coefficient: n-octanol/water	yes	
Auto-ignition temperature	not determined	
Decomposition temperature	irrelevant	
Viscosity	not determined	
Explosive properties	not determined	
Oxidising properties	not explosive	
Container volume	non-oxidizing	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report



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10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulfide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 8.333,3 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = 183,3 mg/l/4 h

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.
- (c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

Sodium Hydroxide:

Acute effects

No negative effect found

Irritation and Corrosivity

Powders are corrosive to digestive mucous membranes, eyes, skin. Swallowing causes burns to the mouth, throat, esophagus, nausea and vomiting, risk of throat edema and shock. In the most serious cases of gastro-intestinal tract rupture

Cardiovascular collapse.

sensitization

No sensitizing effects are known.

In case of inhalation

Toxicity after repeated intake (subacute, subchronic, chronic)

Chronic Effects:

Aerosol inhalation can cause bronchopneumopathy. Irritations of nose and throat, difficulty in breathing. Repeated exposures

Can cause nasal bleeding.

CMR effects (carcinogens, mutagens, toxic for reproduction)

No evidence of mutagenic activity exists (M: Environmental and Molecular Mutagenesis and NIOSH / 00217350).

Carcinogenicity assessment: In animal experiments, with long-term administration of high concentrations in drinking water, the substance has not been carcinogenic.

Reproductive toxicity assessment:

Animal experiments did not show a decrease in fertility at non-toxic doses for parental animals.

Danger in the event of suction

Not applicable.

LD50 (rat) Oral (mg/kg body weight) = 325

tetrasodium ethylenediaminetetraacetate:



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Acute oral toxicity
Parameter: LD50
Exposure route: Oral
Species: Rat
Effective dose: 1780 mg / kg
Acute dermal toxicity
Parameter: LD50
Exposure path: Dermal
Species: Rabbit
Effective dose:> 5000 mg / kg
Acute inhalation toxicity
Parameter: LC50
Exposure routes: Inhalation
Species: Rat
Effective dose: 1 - 5 mg / l
Exposure time: 4 h
Irritation and Corrosivity
Risk of serious eye damage.
sensitization
It does not cause sensitization.
In case of inhalation
Toxicity after repeated intake (subacute, subchronic, chronic)
Causes organ damage if prolonged or repeated exposure occurs.
CMR effects (carcinogens, mutagens, toxic for reproduction)
No mutagenic, carcinogenic or toxic effects are known.
Danger in the event of suction
Not applicable.
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:
Sodium Hydroxide:
Toxicity to water
Acute (short-term) toxicity on fish
Parameter: LC50 (SODIUM HYDROXIDE, CAS No.: 1310-73-2)
Species: Fish
Effective dose: 189 mg / l
Exposure time: 48 h
Acute (short-term) toxicity to dafnie
Parameter: EC50 (SODIUM HYDROXIDE, CAS No.: 1310-73-2)
Species: Ceriodaphnia dubia
Effective dose: = 40.4 mg / l
Exposure time: 48 h

tetrasodium ethylenediaminetetraacetate:
Toxicity to water
Acute (short-term) toxicity on fish
Parameter: EC50
Species: lepomis macrochirus
Effective dose:> 1000 mg / l
Exposure time: 96 h
Acute (short-term) toxicity to dafnie
Parameter: EC50
Species: Daphnia magna
Effective dose: = 625 mg / l
Exposure time: 24 h



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Acute (short-term) toxicity to algae

Parameter: EC50

Species: Pseudokirchneriella subcapitata

Effective dose:> 300 mg / l

Exposure time: 72 h

Bacterial toxicity

Parameter: EC20

Species: Bacteria

Effective dose:> 500 mg / l

Exposure time: 30 min.

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

Sodium Hydroxide:

Abiotic degradation

Not relevant for inorganic substances.

Biodegradation

It is rapidly oxidized into the air by photochemical reaction

tetrasodium ethylenediaminetetraacetate:

Readily biodegradable.

12.3. Bioaccumulative potential

Related to contained substances:

Sodium Hydroxide:

Not bioaccumulate.

tetrasodium ethylenediaminetetraacetate:

Not bioaccumulative.

12.4. Mobility in soil

Related to contained substances:

Sodium Hydroxide:

No data available.

tetrasodium ethylenediaminetetraacetate:

No data available.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Other adverse effects

No data available.

SECTION 13. Disposal considerations



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13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information

14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 1719

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg



14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO ALCALINO CAUSTICO N.A.S. (Idrossido di sodio, Sale sodico dell'acido etilendiamintretracetico)

ADR/RID/IMDG: CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Hydroxide, tetrasodium ethylenediaminetetraacetate)

ICAO-IATA: CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Hydroxide, tetrasodium ethylenediaminetetraacetate)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : 8

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L

IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : Not

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15. Regulatory information

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

REGULATION (EU) No 1357/2014 - waste:

HP8 - Corrosive

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier



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SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 2.2. Label elements, 2.3. Other hazards, 4.1. Description of first aid measures, 6.1. Personal precautions, protective equipment and emergency procedures, 7.1. Precautions for safe handling, 8.2. Exposure controls, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 14.1. UN number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 14.4. Packing group

Description of the hazard statements exposed to point 3

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.

H332 = Harmful if inhaled.

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

Classification based on data of all mixture components