

Microwave cleaner



Revision n. 03
Revision date: 06/06/2014

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY /UNDERTAKING*

1.1. Identification of the substance

| | |
|-------------------------------|--|
| Code: | [MWO111] 484000008424 - [MWO202] 484000001191 - [MWO112] 484000008877 [MWO113] 484000008878 - [MWO115] 484000008953 - [MWO114] 484000008952 |
| Denomination | Microwave cleaner |
| Chemical name and synonyms | |

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/preparation : microwaves oven detergent.
Registration number: N.A. as mixture.

1.3. Information about manufacturer of Safety data sheet

| | |
|---|----------------------------------|
| Company name | Synt Chemical S.r.l. |
| Address | Via Armando Gagliani, 5 |
| City and Country | 40069 Zola Predosa (BO) - ITALY |
| Telephone | Tel. 051 752332 - Fax 051 754945 |
| e-mail of the safety responsible person | laboratorio@syntchemical.it |
| responsible of material data sheet | Dr. Silvano Invernizzi |

1.4. Emergency telephone number

For urgent safety information call the Anti-Poison Center of your country. Check the emergency list on page 15.

2. HAZARD IDENTIFICATION.*

2.1. Classification of the preparation or mixture.

The mixture is NOT classified as dangerous according to Directive 67/548/EEC and Regulation 1999/45/EC and/or Regulation 1272/2008 (CLP) (and following amendments or revision).
Anyhow, the product contains dangerous substances in such concentration to be declared in Section 3, for this reason the products requires a safety data sheet conform to directive of regulations (CE) 1907/2006 and modifications.

2.2. Data on Label.

Danger labeling according to Directive 1272/2008 and following revision and amendments.

CLP pictograms: NONE

Hazard Statements: NONE

Precautionary Statements: NONE

COMPONENTS CONFORM TO REGULATION CE N.648/2004

CONTAINS: ANIONIC SURFACTANTS, NON IONIC SURFACTANTS, EDTA < 5%

2.3. Other hazards.

None

3. COMPOSITION/INFORMATION ON INGREDIENTS.*

3.1. Substances

Not applicable.

3.2. Mixture.

Contains

| IDENTIFICATION | CAS | EC | INDEX | REGISTRATION | CONC. %. | CLASSIFICATION 67/548/CEE. | CLASSIFICATION 1272/2008 (CLP). |
|--|------------|-----------|--------------|-------------------|----------|----------------------------|--|
| * TETRASODIUM ETHYLENEDIAMINETETRAACETATE | 64-02-8 | 200-573-9 | 607-428-00-2 | 01-2119486762-27 | 0,1 - 1% | Xn, R20 R22, Xi R41 | Met. Corr. 1 H290 Acute Tox. 4 (inhalation - fog) H332 Eye irr. 2 H319 |
| SODIUM SILICATE | 1344-09-8 | 215-687-4 | NA | 01-2119448725-31 | 0,1 - 1% | Xi ; R 36/38 | Eye Irrit. 2 ; H319 Skin Irrit. 2 ; H315 |
| *SULPHONIC ACIDS, C14- 16(EVEN NUMBERED)- ALKANE HYDROXY AND C14- 16(EVEN NUMBERED)-ALKENE, SODIUM SALTS | 68439-57-6 | 270-407-8 | NA | 01-2119513401- 57 | 0,1 - 1% | Xi;R41,R38 | Skin Irrit. 2, H315 Eye Dam. 1, H318 |

T+ = Very toxic(T+), T = Toxic (T), Xn = Harmful(Xn), C = Corrosive (C), Xi = Irritant(Xi), O = Oxidising (o), E = Explosive(E), F+ = Extremely Flammable (F+), F = Easily Flammable (F)

*SUBSTANCES ARE LISTED BECAUSE PRESENT EXPOSURE LIMITS (REFER TO SECTION 8)

Full test of R-pharse and H phrase is detailed in section 16 of this document

4. FIRST AID MEASURES.*

No cases of damage are known to users of this product. Anyhow, if necessary, act according below measures.

4.1. First aid instructions.

EYES: Wash immediately, thoroughly with plenty of water for at least 5 minutes holding the eyelids apart. If necessary consult an ophthalmologist.

SKIN: Wash the interested parts with plenty of water and neutral soap. If irritation persists, seek medical advice.

INHALATION: Take the affected person away from contaminated area to fresh air. In case of difficult respiration, seek medical advice.

INGESTION: rinse immediately the mouth. Seek immediately medical advice. Do not induce vomiting. Do not give anything to the person if unconscious and without medical authorization

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

No incidents to health due to the products are known.

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

If incident occur, seek medical advice immediately and following instructions. If possible show Safety information.

5. FIREFIGHTING MEASURES.*

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA:

Are the traditional ones: CO2, alcohol resistant foam, powder and water sprayed

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jets. Water is not effective to extinguish the fire but is useful to cool closed containers exposed to flames, to prevent explosions.

5.2. Special hazards arising from the substance or mixture

DANGERS DUE TO EXPOSURE IN CASE OF FIRE.

Avoid inhalation of gas spread from explosion or fires. They can contain Carbon oxides, halogenated compounds and other toxic products. Refer to section 10.

5.3. Advice for fire-fighter.

GENERAL INFORMATION

Delimit area and flush water from protected site. Cool other container, or product from a well-protected position to avoid heating and overheating.

If a leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapour and to protect personnel attempting to stop a leak

PROTECTIVE EQUIPMENT

Helmet with visor, fireproof clothing (jacket and trousers with straps around the arms, legs and waist), intervention gloves (firefighting, cut-proof and dielectric), and overpressure mask with a face shield covering the entire face of the operator or use the self-respirator (self-protector) in the case of large amounts of smoke

6. ACCIDENTAL RELEASE MEASURES.*

6.1. Personal precautions, protective equipment and emergency procedures

Shut off and avoid any ignition source in contaminated area. Individuals without appropriate protective equipment should be excluded from area of spill until clean-up has been completed. For further information about risk on human health, environment and protective equipment, refer to other section of this document.

6.2. Environmental precautions.

Avoid release into sewerage, surface water, groundwater. Advise immediately authorities in case of loss or spilling.

6.3. Methods and material for containment and cleaning up.

Move in open air the containers if leaking can may be removed and spilling cannot be stopped, Contain and collect liquid with an inert absorbent (sand, earth, Kieselguhr,...) and place in a container for disposal. Clean spill area thoroughly by proper equipment.

Well ventilated the area. Disposal of contaminated materials according to section 13..

6.4. Reference to other sections.

Information regarding personal protective equipment and its disposal (if needed) is given in sections 8 and 13.

7. HANDLING AND STORAGE.*

7.1. Precautions for safe handling.

Keep far from food and drinks. Do not swallow the product. Handle according to a good industrial hygiene and to security measures. (Consult section 10)

7.2. Conditions for safe storage, including any incompatibilities.

Store in a cool, well-ventilated area and away from direct sunlight. Keep away from ignition source, static electricity. Keep containers well closed and labelled. Store away from incompatible materials like acids, oxidizing agents, amphoteric and light metals. Do not store the container above 40 °C. If needed consult section 10.

7.3. Specific end use.

Microwaves oven detergent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.*

8.1. Control parameters.

CAS No. 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Components with PNEC

CAS No. 64-02-8: tetrasodium ethylene diamine tetraacetate fresh water: 2,2 mg/l

Derivate is referred to free acid salt water: 0,22 mg/l

Derivate is referred to free acid salutory emission: 1,2 mg/l

Derivate is referred to free acid soil: 0,72 mg/kg

Derivate is referred to free acid depuration plant: 43 mg/l

Derivate is referred to free acid Components with DNEL

64-02-8: tetrasodium ethylene diamine tetraacetate

worker: Long term exposure – systemic and local effects, Inhalation:

2,5 mg/m³

worker: Short term exposure - systemic and local effects, Inhalation: 2,5 mg/m³

user: Long term exposure - systemic and local effects, Inhalation: 1,5 mg/m³

user: Short term exposure - systemic and local effects, Inhalation: 1,5 mg/m³

user: Long term exposure – systemic effects, oral: 25 mg/kg/day (body weight)

CAS No. :1344-09-8 SODIUM SILICATE

Specific : DNEL (EC)

Parameter : Long term – systemic effects Skin Workers 1,59 mg/kg

Value : 1,59 mg/kg

Version date :

Specific DNEL (EC)

Parameter : : Long term – systemic effects Inhalation Workers

Value : 5,61 mg/m³

Version date :

Specific : DNEL (EC)

Parameter : Long term – systemic effects Skin Population

Value : 0,8 mg/kg

Version date :

Specific : DNEL (EC)

Parameter : Long term – systemic effects Inhalation Population

Value : 1,38 mg/m³

Version date :

Specific : DNEL (EC)

Parameter : Long term – systemic effects Oral Population

Value : 0,8 mg/kg

Version date :

Specific : PNEC STP (EC)

Value : 348 mg/l

Version date :

Specific : PNEC (EC)

Parameter : Oral

Value : 348 mg/kg

Version date :

Specific : PNEC (EC)

Parameter : Fresh water

Value : 7,5 mg/l

Version date :

Specific : PNEC (EC)

Parameter : marine water

Value : 1 mg/l

Version date :

Specific : PNEC (EC)
 Parameter : Saltuary emission
 Value : 7,5 mg/l
 Version date :

Specific : TLV/TWA (EC)
 Value : 2 mg/m³
 Version date :

Nr. CAS 68439- 57-6 SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14- 16(EVEN NUMBERED)-ALKENE, SODIUM SALTS
 Derivated levels of effect

| Type | Exposure | Value | Population | Effects |
|------|----------------------|--------------------------|------------|----------|
| DNEL | Long term Skin | 2158.33 mg/kg bw/day | Workers | Systemic |
| DNEL | Long term Inhalation | 152.22 mg/m ³ | Workers | Systemic |
| DNEL | Long term Skin | 1295 mg/kg bw/day | Users | Systemic |
| DNEL | Long term Oral | 12.95 mg/kg bw/day | Users | Systemic |

Concentrations of effects

| Type | Exposure | Value | Effects |
|------|------------------------------------|--------------|-----------------------|
| PNEC | Marine | 0.0042 mg/l | Evaluation factors |
| PNEC | Soil | 0.0061 mg/kg | Partition equilibrium |
| PNEC | Sediment of marine water | 0.2025 mg/kg | Evaluation factors |
| PNEC | Sediment of running water | 2.025 mg/kg | Partition equilibrium |
| PNEC | Fresh water | 0.042 mg/l | Evaluation factors |
| PNEC | Plant of treatment of waste waters | 4 mg/l | Evaluation factors |

8.2. Exposure controls

As the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local exhaust ventilation or by removing stale air. If you exceed the threshold value or one or more of the substances in the preparation due to daily exposure in the work environment or a fraction determined by the corporate prevention and security service, wear an appropriate breathing mask. Refer to the product label for further details. Request further information to chemicals supplier about proper protective equipment. Protective equipment must fulfill Legislation requirement.



HANDS PROTECTION

Protect your hands with work gloves, category II (Directive 89/686/EEC and EN 374) such as PVC, PVA, neoprene, nitrile, PTFE Viton latex, or equivalent. For the definitive selection of the material used for the work gloves, the following factors should be considered: degradation, breakage time and permeation. In the case of preparations, glove resistance should be tested before use because it is not foreseeable. The gloves have a durability that depends on the duration of exposure



EYES PROTECTION

Wear goggles that adhere to the skin (see standard EN 166) or full mask EN 402.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use in category II (refer to Directive 89/686/EEC and standard EN 344). After removing protective clothing, wash affected skin with soap and water.



RESPIRATORY PROTECTION

If you exceed the threshold value of one or more of the substances in the preparation due to daily exposure in the work environment or a fraction determined by the corporate prevention and security service, wear a mask half face type FFP3 (refer to Standard EN 141).

The use of respiratory protective equipment such as masks fitted with an organic vapours filter and dust/mist, is necessary in the absence of technical measures to limit worker exposure. Nonetheless, the masks provide limited protection.

In the case where the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% in volume, where an open circuit compressed-air self-respirator (Standard EN 137) or an external air-uptake respirator to be used with full face mask, half face mask or mouthpiece (ref. Standard EN 138).

9. PHYSICAL AND CHEMICAL PROPERTIES.*

9.1. Information on basic physical and chemical properties.

| | |
|--|--------------------|
| Appearance | Liquid |
| Colour | Light Blue |
| Odour | Characteristic |
| pH as it is | 11,1 |
| Melting point/freezing point | NA (not available) |
| Flash point | NA (not available) |
| Evaporation rate | NA (not available) |
| Flammability (solid, gas); | NA (not available) |
| Self flammability | NA (not available) |
| explosive limits | Not explosive |
| Decomposition temperature | NA (not available) |
| Relative density at 20°C | 1,01 g/mL |
| Solubility in water | Soluble |
| Liposolubility | NA (not available) |
| Partition coefficient: n-octanol/water | NA (not available) |
| Vapour pressure | NA (not available) |
| Vapours density | NA (not available) |
| Oxydizing property | Not oxidizing |

NA = not available because not determined on mixture

9.2. Others information.

None

10. STABILITY AND REACTIVITY.*

10.1. Reactivity.

No particular danger reactions with other substances in normal condition of use.

10.2. Chemical stability

Product is stable in normal condition and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions for normal storage and use.

10.4. Conditions to avoid.

None particular. Use normal actions for chemical products.

10.5. Incompatible materials.

Acids, amphoteric and light metals, chloride agents

10.6. Hazardous decomposition products.

In case of fire or decomposition may spread gas and vapors potentially harmful for health as CO₂, CO, halogenated compounds and other irritating fumes.

11. TOXICOLOGICAL INFORMATION.*

11.1. Information on toxicological effects.

No problems of damage due to exposure are known. In any case it is recommended to act according to a good industrial hygiene. The product may cause soft effects on sensible people if swallowed, skin absorption, contact with eyes, swallowing.

Nr. CAS 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute toxicity

Evaluation of acute toxicity:

Feeble toxicity after short inhalation. Practically not toxic for one single ingestion. Practically not toxic for one single skin contact.

Experimental data/calculated:

DL50 rat (oral): > 2.000 mg/kg

DL50 rat (skin): not determinate

Information about: tetrasodium ethylene diamine tetraacetate

Experimental data/calculated:

CL50 rat (inhalation): 1000 - 5000 mg/m³ 6 h (OCSE - Guideline 403) Analogism: Information is based on data of similar products.

Information about: tetrasodium ethylene diamine tetraacetate

Experimental data/calculated:

DL50 (skin): study scientifically not justified.

Irritation

Experimental data/calculated:

Corrosion/skin irritation on rabbit: not irritating.

Severe damages to eyes/irritation to eyes rabbit: Irritating. Sensitization of respiratory tract/of skin

Evaluation of sensitization effects: No data available.

Information about: tetrasodium ethylene diamine tetraacetate

Experimental data/calculated:

Guinea Pig Maximation Test on Guinea Pig: not sensitizer (OECD - Guideline 406)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Mutagenicity on germinal cells

Information about: tetrasodium ethylene diamine tetraacetate

Evaluation of mutagenicity:

on the most part of the test (bacterium/micro-organism/cells culture) no mutagenicity effect appeared from substance. Neither on test on animals resulted this effect.

Cangerogenicity

Information about: tetrasodium ethylene diamine tetraacetate

Evaluation of cancerogenicity:

result of long term study on animal on rats, with oral administration, in food, the substance did not result cancerogenous

Reproductive toxicity

Information about: tetrasodium ethylene diamine tetraacetate

Evaluation of reproductive toxicity:
the result of study on animal does not show damaging effects on fertility.

Toxic for growth

Information about: tetrasodium ethylene diamine tetraacetate

Evaluation of teratogenity:

test on animal did not show toxic effect on growth, at dose that does not show toxic for parent animal.

Specific toxicity for target organs (single exposure)

Note: No data available.

Toxicity of repeated dose and specific toxicity for target organs (repeated exposure)

Information about: tetrasodium ethylene diamine tetraacetate

Evaluation of the toxicity after repeated administration: no adverse effects on test on animals even after repeated administrations

Danger in case of aspiration

No risk of aspiration is expected.

CAS No. 68439- 57-6 SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14- 16(EVEN NUMBERED)-ALKENE, SODIUM SALTS

Acute toxicity

| Endpoint | Specie | Result | Exposure |
|-------------------------------|-------------|--------------------|----------|
| CL50 Inhalation dust and fogs | Rat | >52 mg/L | 4 hours |
| DL50 Skin | Rabbit | 6300 a 13500 mg/kg | - |
| DL50 Oral | Rat - Male, | 2079 mg/kg | - |

Irritation/Corrosion

| Endpoint | Test | Specie | Result |
|-----------|--|--------|--------|
| Corrosive | OECD 404 Acute Dermal Irritation/Corrosion | Rabbit | - |
| Corrosive | OECD 405 Acute Eye Irritation/Corrosion | Rabbit | - |

Conclusion/Summary

Skin Irriting to skin.

Eyes Irritating to eyes.

Respiratory system No relevant effects or critical dangers are known

Sensibilization It does not cause sensitization

Mutagenicity NO mutagenetic effect.

Potential acute effects on health

Inhalation: No relevant effects or critical dangers are known

Ingestion: Irritating to mouth, gorge and stomach.

Contact with skin: Irritating to skin

Contact with eyes: severe irritating to eyes. Risk of severe damage to eyes.

Symptoms linked to physical, chemical, toxicological characteristics

Contact with skin: negative symptoms may include:

irritation

reddening

Contact with eyes: negative symptoms may include

lacrimation

reddening

Potential chronic effects on health

General: No relevant effects or critical dangers are known

Carcinogenicity: No relevant effects or critical dangers are known

Mutagenicity: No relevant effects or critical dangers are known
Teratogenicity: No relevant effects or critical dangers are known
Effects on growth: No relevant effects or critical dangers are known
Effects on fertility: No relevant effects or critical dangers are known

CAS No. :1344-09-8 SODIUM SILICATE
Value LD50/LC50 relevant for classification
LD50
Method of absorption: oral
Specie for the test : Rat
Valore > 2000 mg/kg

12. ECOLOGICAL INFORMATION.*

Use according good working practice; avoid spreading the product into environment
Advise immediately authorities in case of lose or spilling.

12.1. Toxicity.

Value not determined for the mixture

CAS No. 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Information about: tetrasodium ethylene diamine tetraacetate

Fish toxicity:

CL50 (96 h) > 100 mg/l, *Lepomis macrochirus* (OPP 72-1 (EPA directive), static)

Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information about: tetrasodium ethylene diamine tetraacetate

Aquatic invertebrates:

CE50 (48 h) > 100 mg/l, *Daphnia magna* (DIN 38412 part 11, static)

Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information about: tetrasodium ethylene diamine tetraacetate

Acquaric plants:

CE50 (72 h) > 100 mg/l (growth tax), *Scenedesmus obliquus* (Directive 88/302/CEE, part C, p 89, static)

Nominal concentration.

Information about: tetrasodium ethylene diamine tetraacetate

Microorganisms/Effects on active muds:

CE20 (30 min) > 500 mg/l, active mud, domestic (OECD - Guideline 209, aquatic) Nominal concentration.

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information about: tetrasodium ethylene diamine tetraacetate

Chronic toxicity on fish:

NOEC (35 d) >= 36,9 mg/l, *Brachydanio rerio* (Guideline OECD 210, Flux)

The indications of toxic action are referred to concentration analytically determined. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information about: tetrasodium ethylene diamine tetraacetate

Chronic toxicity for aquatic invertebrates:

NOEC (21 d) 25 mg/l, *Daphnia magna* (OECD - guideline 211, semi-static)

Nominal concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information about: tetrasodium ethylene diamine tetraacetate

Toxicity to soil dwelling organisms:

CL50 (14 d) 156 mg/kg, *Eisenia foetida* (OECD - Guideline 207, artificial soil)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

CAS No. 68439- 57-6 SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14- 16(EVEN NUMBERED)-ALKENE, SODIUM SALTS

| Test | Endpoint | Exposure | Specie | Result |
|--|--------------|---------------------|----------|-----------|
| ISO 10253:2006 - Marine algal growth inhibition test with Skeletonema costatum and Phaeodactylum tricornutum | Acute EC50 | 72 hours | Algae | 5.2 mg/L |
| OECD 202 Daphnia sp. Acute Immobilisation Test | Acute EC50 | 48 hours Static | Daphnia | 4.53 mg/L |
| OECD 209 Activated Sludge, Respiration Inhibition Test | Acute IC50 | 3 hours Static | Bacteria | 230 mg/L |
| OECD 203 Fish, Acute Toxicity Test | Acute CL50 | 96 hours Static | Fish | 4.2 mg/L |
| OECD 211 Daphnia Magna Reproduction Test | Chronic NOEC | 21 days Semi-static | Daphnia | 6.7 mg/L |

CAS No. :1344-09-8 SODIUM SILICATE

- . Specific : LC0
- . Parameter : Daphnia
- Value > 500 mg/l

- . Test duration : 24 hours
- . Specific : LC50
- . Parameter : Pesce Brachydanio rerio
- . Value = 3185 mg/l
- . Test duration : 96 hours

12.2 Persistence and degradability

No data available for mixture.

CAS No. 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Information about: tetrasodium ethylene diamine tetraacetate evaluation of biodegradability and elimination (H₂O), was found to be potentially biodegradable. Not readily biodegradable (by OECD criteria).

Information about: tetrasodium ethylene diamine tetraacetate Evaluation of the stability in water: Basing on chemical composition, the hydrolyze is unlikely.

Nr. CAS 68439- 57-6 SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14- 16(EVEN NUMBERED)-ALKENE, SODIUM SALTS

| Test | Period | Result |
|---|---------|--------|
| OECD 301B Ready Biodegradability - CO ₂ Evolution Test | 28 days | 96 % |
| OECD 306 Biodegradability in Seawater | 28 days | 92 % |

Biodegradability: easily

CAS No. :1344-09-8 SODIUM SILICATE

The soluble silicates after dilution depolymerize quickly till make their molecule unnoticeable from dissolved natural silica. Anyhow the pH of many commercial solutions of silica is over the acceptable limit for direct emission in sewers or ground waters.

12.3. Bio accumulative potential.

No data available for mixture

CAS No. 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Bio accumulative potential:

bio concentration factor is about 1,8 (28 days), Lepomis macrochirus Accumulation in organisms is unlikely.

CAS No. 68439- 57-6 SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14- 16(EVEN NUMBERED)-ALKENE, SODIUM SALTS

| LogPow | BCF | Potential |
|--------|------|-----------|
| -1.3 | 70.8 | Low |

CAS No. :1344-09-8 SODIUM SILICATE

Bio accumulative potential: minimum.

12.4. Mobility in soil.

No data available for mixture

CAS No. 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Information about: tetrasodium ethylene diamine tetraacetate

Evaluation of the transfer rates between environmental compartments: the substance does not evaporate in the air from water surface. Soil absorption is not proven from solid phase

12.5. Results of PBT and vPvB assessment.

No data available for mixture

CAS No. 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

According to Annex XIV of Regulation (EC) N.1907/2006 concerning the registration, the evaluation, the authorization and restriction of chemical substances (REACH), does not require the classification criteria as substance PBT (persisting/ bioaccumulable/ toxic). Auto classification

CAS No. 68439- 57-6 SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14- 16(EVEN NUMBERED)-ALKENE, SODIUM SALTS

Not applicable

12.6. Other adverse effects.

No data available for mixture

CAS No. 64-02-8: TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Additional parameter

Theoretical Oxygen Demand (ThOD): 262 mg/g

More information about substance compartment in environment:

Treatment and delivery to biological depuration plant must be in accordance with local and national regulations

More information for fish toxicity:

Do not release into sewerage without precautionary treatment.

13. DISPOSAL CONSIDERATIONS.*

13.1. Waste treatment method

Recycle, if possible. Act in accordance with local and national regulations. Refer to current national legislation. Do not release into sewerage. Do not pollute watercourses. Residues have to be considered as dangerous waste

CONTAMINATED PACKAGING

Indications: empty containers shall not be released to the environment.

Remarks: user has to ensure that no other regional or national rules are in force

14. TRANSPORT INFORMATION

Product not classified dangerous for transport

Road and Railway Transport:
Shipping transport:
Air transport:

15. REGULATORY INFORMATION.*

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

This document has been written following scheme and rules of below Directive and Regulation
It is underlined that this mixture is for food application, hence it is out of the scope of the below Legislation.

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments;
3. Regulation (EC) 1907/2006 of European Parliament (REACH)
4. Regulation (EC) 1272/2008 of European Parliament (CLP)
5. Regulation (EC) 790/2009 of European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of European Parliament
7. Regulation (EC) 286/2011 of European Parliament (II Atp. CLP)

When applicable, refer to following directive: D.Lgs. 21 September 2005 n. 238 (Directive Seveso Ter)

Seveso class. None

Restriction related to the mixture or contained substance, according to Annex XVII, Regulation EC 1907/2006. None

Substance in Candidate List (Art. 59 REACH). None

Substance edified for Authorization (Annex XIV REACH). None

Sanitary controls.

Workers exposed to this chemical agent must be monitored for health issues according to Legislation.

15.2. Chemical safety assessment.

Not available on mixture.

16. OTHER INFORMATION.*

Full Danger and H-phrase indicated in section 2-3 of this document

Met. Corr. 1 May be corrosive to metals, category 1
Eye Dam. 1 severe damage to eyes, category 1
Eye Dam. 2 severe damage to eyes, category 2
Skin Irrit. 2 Skin irritation, category 2
Acute Tox. 4 Acute toxicity, category 4
Aquatic Chronic 1 Dangerous to aquatic environment, chronic toxicity category 1
Aquatic Acute 1 Dangerous to aquatic environment, acute toxicity category 1
H290 May be corrosive to metals
H315 Causes skin irritation.
H318 Causes severe damage to eyes.

H319 Causes serious eye irritation
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Full Danger and R-phrase indicated in section 2-3 of this document

R20 HARMFUL BY INHALATION
R22 HARMFUL IF SWALLOWED
R36/38 IRRITATING TO EYES AND SKIN.
R41 RISK OF SERIOUS DAMAGE TO EYES
R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

LITERATURE:

1. The Merck Index. Ed. 10
2. Handling Chemical Safety
3. Niosh - Registry of Toxic Effects of Chemical Substances
4. INRS - Fiche Toxicologique
5. Patty - Industrial Hygiene and Toxicology
6. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989

List of abbreviations:

ACGIH : American Conference of Governmental Industrial Hygienists

CSR : Report of Chemical Security

DNEL: Derived No-Effect Level.

DMEL: Derived Minimal Effect Levels

EC50: Effective concentration, 50%.

EL50 : Effective Loading, 50%.

EPA: Environmental Protection Agency

IC50: Inhibitory Concentration, 50%

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

LL50: Lethal Loading, 50%

LL0: Lethal Loading, 0%

LOAEL: Low Observed Adverse Effects Level.

LOAEC: Low Observed Adverse Effects Concentration.

NOEC: No Observed Effects Concentration.

NOEL: No Observed Effects Level. .

NOAEL: No Observed Adverse Effects Level. .

NOELR: No Observed Effect Loading Rate.

OECD: The Organization for Economic Co-operation and Development

TLV-TWA : Threshold Limit Value - Time Weight Average

N/A: Not applicable

PBT: Persistent, bioaccumulative and toxic.

SNC: Central Nervous System

STOT: Specific Target Organ Toxicity

(STOT) RE: Specific target organ toxicity – repeated exposure

(STOT) SE: Specific target organ toxicity – single exposure

PNEC: Predicted No-Effect Concentration.

TLV-STEL: threshold limit value - Short-term exposure limit

UVCB: Substances of Unknown or Variable composition, Complex reaction products or Biological materials.

vPvB: Very Persistent and very Bio accumulative.

WAF = Water Accommodated Fraction

Note for the user:

The information on this sheet is based on information that was available at our premises as of the date of the last version. The user must make sure such information is complete in relation to the specific use being made of the product. Said document must not be interpreted as a guarantee of any specific property of the product. Since the use of the product is not under our direct control, it is the responsibility of the user to observe the law and other provisions in force on matters of health and safety. We shall not be held liable for any improper uses.

Microwave cleaner



INGREDIENTS SHEET

| COMPONENT IUPAC | INCI NAME | CAS | Pharmacopea name | EINECS | % |
|---|---------------------------------|------------|-------------------|-----------|-------|
| Water | AQUA | 7732-18-5 | aqua | 231-791-2 | > 10 |
| Alcohols, C11 linear branched, ethoxylated propoxylated | NA | 68937-66-6 | NA | NA | 1-10 |
| Tetrasodium ethylenediaminetetraacetate | TETRASODIUM EDTA | 64-02-8 | NA | 200-573-9 | 0,1-1 |
| Silicic acid, sodium salt | SODIUM SILICATE | 1344-09-8 | NA | 215-687-4 | 0,1-1 |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | SODIUM C14-16 OLEFIN SULFONATE | 68439-57-6 | NA | 270-407-8 | 0,1-1 |
| Sodium etasulfate | SODIUM ETHYLHEXYL SULFATE | 126-92-1 | NA | 204-812-8 | 0,1-1 |
| 4,4'-Dichloro-2-Hydroxydiphenyl Ether | HYDROXYDI-CHLORODI-PHENYL ETHER | 3380-30-1 | NA | 429-290-0 | 0,1-1 |
| Sodium hydroxide | SODIUM HYDROXIDE | 1310-73-2 | natrii hydroxidum | 215-185-5 | < 0,1 |

Emergency telephone numbers

For urgent safety information call the Anti-Poison Center of your country:

| | COUNTRY | CUSTOMER SERVICE NR. | ANTI-POISON CENTER NR. |
|---|------------|-----------------------|--|
|  | AUSTRIA | (0043) 050 6700 200 | (0043) 01 406 43 43 |
|  | BELGIUM | 0032 (0)2 263 33 33 | (0032) 070 245 245 |
|  | CZECK REP. | (00420) 840 111 313 | (00420) 224 91 54 02 |
|  | DENEMARK | (0045) 44880280 | (0045) 82121212 |
|  | FINLAND | (09) 61336 235 | (09) 471977 |
|  | FRANCE | (0033) 0892 700 150 | (0033) 01 40 05 48 48 |
|  | GERMAN | (0049) 0711 93533655 | (0049) 0761 19240 |
|  | GREECE | (0030) 2109946400 | (0030) 2107793777 |
|  | HOLLAND | 0031 (0)76 530 6400 | (0031) 030 274 8888 |
|  | HUNGARY | (0036) 06 40 109 109 | (0036) 80 20 11 99 |
|  | IRELAND | (00353) 0844 815 8989 | (00353) 1 8092566 |
|  | ITALY | (0039) 199 580 480 | (0039) 02 66101029 |
|  | NORWAY | (0047) 22782500 | (0047) 22 59 13 00 |
|  | POLAND | (0048) 801 900 666 | Warszawa: (0048) 22 619 66 54 Gdańsk: (0048) 58 682 04 04 Poznań: (0048) 61 847 69 46 Kraków: (0048) 12 411 99 99 |
|  | PORTUGAL | (00351) 707 203 204 | (00351) 808 250143 |
|  | ROMANIAN | (0040) 0372 117 745 | |
|  | RUSSIA | 007 (495)745 57 31 | |
|  | SLOVAKIA | (00421) 0850 003 007 | (00421) 2 54774166 |
|  | SPAIN | (0034) 902 203 204 | (0034) 915 620 420 |
|  | SWEDEN | (0046) 0771 751570 | (0046) 08 331231 |
|  | SWISS | (0041) 0848 801 005 | (0041) 145 |
|  | UK | (0044) 0844 815 8989 | (0044) 0845 46 47 (0044) 020 7188 0600 |
|  | UCRAIN | (00380) 0 800 501 150 | |