

Safety data sheet

According to TON Regulation 1272/2008
Version 1
Date 04 / 08 / 2015

1. Data PREPARATION AND COMPANY

1.1 Information on the preparation

Trade name: ASEM ECONOMY

1.2 Use of the substance/preparation

Liquid bleach cleaning agent on the basis of the active chlorine.

1.3 Information on the manufacturer

ASEM SA
D. FOLOPOULOU 14 - ILION
Telephone: 210-5748440
FAX : 210- 5745872
T . J : 131 21
Email: Sales@asem.gr

1.4 REM. Ken. I.e. 210 -7793777

2. Determination of risk

Marking in accordance with Regulation (EC) No 1272/2008

EUH 206

Skin cor. 1 B (H 314)

High-pitched insurance. 1(H 400)

Pictogram



Warning word

Risk

Statement of risk(medical) H

EUH206 Attention! Not to be used in combination with other products. May release dangerous gases (chlorine).

H 314 Causes severe skin burns and eye injuries.

H 400 Very toxic to aquatic organisms.

Preventive statement(s)

P 102 away from children. P405 kept locked

P 260 Do not breathe dust/fumes/gas/liquid/vapor/spray.

P 280 to wear protective gloves/protective clothing/personal protection for the eyes/person.

P 303+ P 361+ P 353 IN CASE OF CONTACT WITH THE SKIN (or the hair): remove immediately all contaminated clothing. Rinse the skin with water /in the shower.

P 305+ P 351+ P 338 in case of contact with eyes, rinse thoroughly with water for several minutes. If there are contact lenses, remove them, since it is easy. Continue to rinse it.

P 309 + P 310 IN CASE OF exposure or illness: Call immediately the Poisons Information Center or a doctor.

P 501 Placing the content/container in accordance with the local/national/international Regulations.

Other risks

It is not known other risks.

The product does not meet the criteria as pbts and vpvbs in accordance with the requirements of Regulation No 1907/2006 (EC), ANNEX XIII .

3. Composition/information on ingredients

3.1 Recommendation preparation

Hazardous ingredients

Cas No	Component	Number Reach	Classification according to 1272/2008/EC	Classification	Content
1310-73-2	Sodium hydroxide	01-2119457892-27	Skin cor. 1 A (H 314) Metal cor. 1 (H290)	R35	0 % - 5%
7681-52-9	Sodium Hypochlorite solution	01-2119488154-34	EUH031 Skin cor. 1B (H314) Acute tox. 1 (H 400)	R 3 4, R 31 , R 50	0 % - 5%

4. First aid

4.1 Description of first aid measures General instructions

Consult a doctor. Show the treating doctor this newsletter.

In the event of inspiration

In the event of inhalation transfer the παθων person in the fresh air. In the case of opposition to breathing apply artificial respiration. Consult a doctor.

In case of contact with the skin

Wash with soap and water. Consult a doctor.

In case of contact with eyes

Rinse with large amounts of water for at least 15 minutes and consult a doctor.

If swallowed

Do not administer when something in the unconscious person from the mouth. Rinse mouth with water. Consult a doctor.

4.2 Main symptoms and effects, acute or subsequent

The most important of the known symptoms and the effects described in the labelling (see paragraph 2.2) and/or in section 11

4.3 indication of any required immediate medical care and special treatment

There is no evidence

5. Measures FOR FIRE-FIGHTING

5.1 fire fighting equipment appropriate fire fighting equipment

Use spray water, foam fixed in alcohol, dry extinguishing agent or carbon dioxide.

5.2 specific hazards arising from the substance or mixture

Chlorine, hydrogen chloride, gas, hydrogen chloride, sodium oxide gas, SODIUM OXIDE .

5.3 Recommendations for firefighters

In extinguishing a fire stand alone wear respiratory equipment when necessary.

5.4 Further information

There is no evidence

6. Meas A FOR ANTIM ADDRESSING ISSUES OF accidental spillages

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Do not breathe vapor/mist/gas. Take adequate ventilation.

Transfer the staff in a safe place.

For personal protective clothing see paragraph 8.

6.2 Environmental precautions

Prevent the further leakage and dissipation, if this is not possible without risk. It is prohibited to tunnel to a network of sewage. The EXCRETION on the environment should be avoided.

6.3 methods and materials for containment and clean

Gather with an inert means to absorb and dispose for disposal as hazardous waste.

Surrenders to be placed in suitable closed containers.

6.4 Reference to other parts

For the rejection see paragraph 13

7. Handling and storage

7.1 precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors or fog.

For precautions see 2.2.

7.2 conditions for safe storage, including any incompatibilities

Keep in a cool place. The container tightly closed, in place of dry, with good ventilation.

The open containers must be closed carefully and be stored upright to avoid any leaks.

7.3 A part of the uses referred to in paragraph 1.2, does not have any other specific uses.

8. E HECKING THE EXPOSURE TO THE PRODUCT/ PERSONAL PROTECTION

Control Parameters

Limit values for exposure at the workplace

Limit values for gases, if available:

Ingredient(s)	Long-term(s) value(s)	Short-term(s) value(s)
of sodium hydroxide	2 mg/m ³	2 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limit values on the conditions of use, if available:

DNEL values / DMEL AND PNEC Human exposure

DNEL exposure via the oral - Consumer (mg / kg bw)

Ingredient(s)	Short-term - Local impact	Short-term - Systemic effects	Long-term - Local impact	Long-term - Systemic effects
Sodium hypochlorite	There are no Available data	There are no Available data	There are no Available data	0.26
Sodium hydroxide	There are no Available data	There are no Available data	There are no Available data	There are no Available data

DNEL exposure through the skin - Worker

Ingredient(s)	Short-term - Local impact	Short-term - Systemic effects (mg / kg bw)	Long-term - Local impact	Long-term - Systemic effects (mg / kg bw)
Sodium hypochlorite	There are no Available data	There are no Available data	0.5 %	There are no Available data
Sodium hydroxide	2 %	There are no Available data	There are no Available data	There are no Available data

DNEL exposure through the skin - Consumer

Ingredient(s)	Short-term - Local impact	Short-term - Systemic effects (mg / kg bw)	Long-term - Local impact	Long-term - Systemic effects (mg / kg bw)
Sodium hypochlorite	There are no Available data	There are no Available data	0.5 %	There are no Available data
Sodium hydroxide	2 %	There are no Available data	There are no Available data	There are no Available data

DNEL exposure by inhalation - Worker (mg / m 3)

Ingredient(s)	Short-term - Local impact	Short-term - Systemic effects	Long-term - Local impact	Long-term - Systemic effects
Sodium hypochlorite	3.1	3.1	1.55	1.55
Sodium hydroxide	There are no	There are no	1	There are no

DNEL exposure by inhalation - Consumer (mg / m 3)

Ingredient(s)	Short-term - Local impact	Short-term - Systemic effects	Long-term - Local impact	Long-term Systemic effects
Sodium hypochlorite	3.1	3.1	1.55	1.55
Sodium hydroxide	There are no	There are no	1	There are no

Environmental report

Environmental Report - PNEC

Ingredient(s)	Surface waters, Fresh water (mg / l)	Surface waters, Salt water (Mg / l)	Periodic Release (mg/l)	Installation Waste water treatment plant (mg / l)
Sodium hypochlorite	0.00021	0.000042	0.00026	0.03
Sodium hydroxide	There are no	There are no	There are no	There are no

Environmental Report - PNEC, continued

Ingredient(s)	The sediment, fresh water (Mg / kg)	The sediment, salt Water (mg / kg)	The territory (mg/kg)	Air (mg/m3)
Sodium hypochlorite	There are no Available data	There are no Available data	There are no Available data	0.00026
Sodium hydroxide	There are no	There are no	There are no	There are no

Exposure controls

General protective and sanitary measures

When handling chemicals recommended protective measures must be taken into account. Keep away from food, drink and feed. Remove immediately all contaminated clothing. Always wash hands before breaks and at the end of work.

Avoid contact with skin and eyes.

Recommended safety measures for the handling of insoluble product:

Suitable mechanical checks: Use only in well ventilated area. In the event that the product is diluted with

Special

dosing systems and there is no risk of splashing or direct contact with the skin, personal protective equipment described in this section are not required.

Appropriate organizational checks: Avoid direct contact where possible.

Personal protective equipment

Eye protection/person: safety glasses or goggles to apply tight (EN 166).

Hand protection: Gloves resistant to chemicals (EN 374).

Proposed gloves for prolonged contact: Material: rubber butyl

Permeability Time: ≥ 480 minutes material thickness: ≥ 0.7 mm

Proposed gloves for protection from splashing: Material: rubber nitrile type

Permeability Time: ≥ 30 minutes material thickness: ≥ 0.4 mm

Body protection: in the event of direct exposure of skin and/or splashing, wear protective clothing and boots resistant to chemicals.

Respiratory protection: No special measures are necessary in normal conditions of use.

Checks environmental report should not be reached in the waste water insoluble.

Recommended safety measures for the handling of the diluted product:

Suitable mechanical checks: No special measures are necessary in normal conditions of use.

Appropriate organizational controls: No special measures are necessary in normal conditions of use.

Personal protective equipment .

Eye protection/person: No special measures are necessary in normal conditions of use.

Hand protection: wash and dry your hands after use. In the event of prolonged track may need skin protection.

Body protection: No special measures are necessary in normal conditions of use.

Respiratory protection: No special measures are necessary in normal conditions of use.

Checks environmental report: No special measures are necessary in normal conditions of use.

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

A) View	Form: liquid
B) Smell	Characteristic
C) Odour Threshold	There is no evidence
D) PH	13 - 14
E) Melting/freezing point	There is no evidence
F) Initial boiling point and boiling range	There is no evidence
G) Flash point	Not applicable
H) Evaporation Rate	There is no evidence
I) Flammability (solid, gas)	There is no evidence
J) Higher/ lower limits of flammability or detonation	There is no evidence
K) Vapor pressure	There is no evidence
L) Vapor Density	There is no evidence
M) Relative density	There is no evidence
N) Solubility in water	Full
O) The Partition coefficient: n-octanol/water partition coefficient	There is no evidence
P) Temperature The auto-ignition	Does not ignite
Q) Temperature Decomposition	There is no evidence
R) Viscosity	Not applicable
S) Explosive properties	It is not explosive
T) Oxidizing properties	It is not oxidation

9.2 other safety information
There is no evidence

10. Stability and reactivity

10.1 Activity

There is no evidence

10.2 Chemical stability

Fixed under the prescribed storage instructions.

10.3 possibility of hazardous reactions

There is no evidence

10.4 Conditions to avoid

There is no evidence

10.5 incompatible materials

Acids

10.6 Hazardous decomposition products

In addition, decomposition products - There is no evidence in the event of fire: see chapter 5

11.Information on toxicology

11.1 Information on the toxicological effects of mixtures

Not available test data on the mixture

The data for the substance, where relevant and available, listed below.

Acute toxicity

Acute oral toxicity

Ingredient(s)	Final Point	Value (Mg/kg)	Type	Method	Time Report (h)
Sodium hypochlorite	LD 50	> 1100	Rat	The method is not Supplied	-
Sodium hydroxide	-	-	-	-	-

Acute toxicity through the skin

Ingredient(s)	Final Point	Value (Mg/kg)	Type	Method	Time Report (h)
Sodium hypochlorite	LD 50	> 20000	Rabbit	The method is not Supplied	-
Sodium hydroxide	-	-	-	-	-

Acute inhalation toxicity

Ingredient(s)	Final Point	Value (Mg/l)	Type	Method	Time Report (h)
Sodium hypochlorite	LC 50	> 10.5	Rat	OECD 403 (EU B.2)	1
Sodium hydroxide	-	-	-	-	-

Irritation and corrosiveness

Skin irritation and corrosiveness

Ingredient(s)	Result	Type	Method	Exposure Time
Sodium hypochlorite	Corrosive	Rabbit	The method is not Supplied	-
Sodium hydroxide	Corrosive	Rabbit	The method is not Supplied	-

Eye irritation and corrosiveness

Ingredient(s)	Result	Type	Method	Exposure Time
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Sodium hypochlorite	Serious fault	Rabbit	The method is not Supplied	-
Sodium hydroxide	Corrosive	Rabbit	The method is not Supplied	-

Respiratory tract irritation and corrosiveness

Ingredient(s)	Result	Type	Method	Exposure Time
Sodium hypochlorite	Irritating to The breathing System	-	-	-
Sodium hydroxide	There are no data	-	-	-

Awareness

Sensitization by skin contact

Ingredient(s)	Result	Type	Method	Exposure Time (H)
Sodium hypochlorite	It is not Sensitizing	Guinea pig	The method is not Supplied	-
Sodium hydroxide	It is not Sensitizing	-	Repeated Test the hands People	-

Sensitisation by inhalation

There are no data

Repeated dose toxicity

Under-acute or sub-chronic toxicity by the oral route

Ingredient(s)	Final Point	Value (Mg/kg bw/d)	Type	Method	Time Report (days)	Special impacts and Institutions affected
Sodium hypochlorite	NOAEL	50	Rat	-	90	-
Sodium hydroxide	-	-	-	-	-	-

Under-years dermal toxicity

There are no data

Sub-chronic toxicity by inhalation

There are no data

Chronic toxicity

There are no data

Carcinogenicity

Ingredient(s)	Impact
Sodium hypochlorite	Not suspect carcinogenicity, negative results

Sodium hydroxide	Not suspect carcinogenicity, burden of proof
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Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (In-vitro)	Result (in-vivo)	Method (In-vivo)
Sodium hypochlorite	No evidence for mutagenicity, weight of Evidence	OECD 471 (EU B.12/13)	There are no indications of Mutagenicity, negative Test results	The method is not Supplied
Sodium hydroxide	-	-	-	-

reproduction toxicity

Ingredient(s)	End Point	Specific impact	value (mg/kg bw/d)	Type	Method of	exposure time	observations and other effects that have been mentioned
sodium hypochlorite	NOAEL	DEVELOPMENTAL TOXICITY	5 (CI)	RAT	is not known,		there are no indications of toxicity
of sodium hydroxide	-	-	-	-	-	-	

12. Ecological information

12.1 Toxicity

Mixtures

Not available test data on the mixture.

The data for the substance, where relevant and available, listed below

Short-term toxicity to the aquatic environment

Short-term toxicity to the aquatic environment - fish

Ingredient(s)	Final Point	Value (Mg/l)	Type	Method	Time Report (h)
Sodium hypochlorite	LC 50	0.06	Various types of	The method is not Supplied	96
Sodium hydroxide	LC 50	35	D I a difference in particular	The method P A P E R A T N D	96

Short-term toxicity to the aquatic environment - crustaceans

Ingredient(s)	Final Point	Value (Mg/l)	Type	Method	Time Report (h)
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Sodium hypochlorite	EC 50	0.026	Non-classified	The method is not Supplied	48
Sodium hydroxide	EC 50	40.4	<i>Ceriodaphnia</i> Sp.	The method is not Supplied	48

Short-term toxicity to the aquatic environment - algae

Ingredient(s)	Final Point	Value (Mg/l)	Type	Method	Time Report (h)
Sodium hypochlorite	NOEC	0.0021	Not specified	The method is not Supplied	168
Sodium hydroxide	EC 50	22	Photobacterium phosphoreum	The method P A P E R A T N D	0.25

Short-term toxicity to the aquatic environment - marine species

There are no data

The effects of a sewage facilities - Toxicity to bacteria

Ingredient(s)	Final Point	Value (Mg/l)	Inoculum	Method	Time Report
Sodium hypochlorite		0.375	Activated sludge	The method is not Supplied	
Sodium hydroxide	-	-	-	-	-

Long-term toxicity to the aquatic environment

Long-term toxicity to the aquatic environment - fish

Ingredient(s)	Final Point	Value (Mg/l)	Type	Method	Time Report	Effects Observed
Sodium hypochlorite	NOEC	0.04	Menidia Pelinsulae	The method is not Supplied	96 hour(s)	-
Sodium hydroxide	-	-		-		-

Long-term toxicity to the aquatic environment - crustaceans

There are no data

Toxicity to the aquatic environment in other water selected benthic organisms, including the organizations of the sediments, if available:

There are no data

Toxicity in the territory

Toxicity to soil - earthworms, if available:

There are no data

Toxicity to soil - plants, if available: Toxicity in the territory - birds, if available:

There are no data

Toxicity in the territory - beneficial insects, if available: Toxicity in the territory - bacteria of the soil, if available:

There are no data

12.2 durability and degradation capacity

Abiotic degradation

Abiotic degradation - photodegradation in the air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Note
Sodium hypochlorite	115 day(s)	Indirect photooxidation	-	-
Sodium hydroxide	13 DEY NOTE PALE r t the(s)	The method P AP ERA T ND	Photodegradable quickly	-

Abiotic degradation - hydrolysis, if available: abiotic degradation - other procedures, if available:

Biodegradation

Easy biodegradation - aerobic workouts conditions

Ingredient(s)	Inoculum	Detailed Method	DT 50	Method	Evaluation
Sodium hypochlorite	-	-	-	-	Not applicable (inorganic Substance)
Sodium hydroxide	-	-	-	-	Not applicable (inorganic Substance)

Easy biodegradability - anaerobic and marine conditions, if available: degradation in details of environment, if available:

12.3 bioaccumulation potential

Partition coefficient n -octanol/water partition coefficient (Log Kow)

Ingredient(s)	Value	Method	Evaluation	Note
Sodium hypochlorite	There are no Available data	-	Is not expected to accumulate	-
Sodium hydroxide	-	The method is not Supplied	It is not relevant, Bioaccumulates	-

Concentration (BCF)

There are no data

12.4 Mobility in the soil

Absorption in soil or sediment

Ingredient(s)	Rate Absorption Log Koc	Rate Absorption	Method	Type Territory/ sediment	Evaluation
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Sodium hypochlorite	1.12	-	-	-	High capacity for mobility in the soil
Sodium hydroxide	There are no data	-	-	-	Mobile in the territory

Results of the evaluation pbts and Vpvbs

The SUBSTANCES WHICH GO BEYOND THE CRITERIA FOR ABT /Vpvbs, if present, are reported in section 3.

Other negative effects

It is not known other adverse effects.

13. Information ON THE DISPOSAL

13.1 Methods of waste management Product

Residues and non-recyclable solutions are delivered to a recognized waste processing company.

Non-cleaned packages (packages)

Rejected as unused product.

14. Shipping Instructions

The transfer of the product is safe containers of the company and does not require any additional precautions.



Terrestrial μεταφορά ADR/RID

ADR/RID-GGVS/E Class 8 Corrosive substances.

Kemler number: 80

UN-Αριθμός: 1791

Packaging: II I

Label: 8

material (PSN): 1791 hypochlorite solution

Marine μεταφορά IMDG Code

IMDG code Class: 8

UN-: 1791

Packaging: II I

Label: 8

EMS : 8-08

Polluter sea: Yes

material (PSN): sodium hypochlorite solution

Air ICAO-TI AND IATA-DGR

The ICAO/IATAE Class: 8

UN/ID : 1791

Label: 8

Packaging: III

Polluter sea: Yes

material (PSN): sodium hypochlorite solution

Transfer/ADDITIONAL INFORMATION:

Other relevant information:

ADR

Classification code: C 9

Code for the tunnel: E

The legislation for transfers include
some special provisions for some classes of dangerous goods
in limited quantities.

15.INFORMATION ON THE REGULATORY PROVISIONS.

This Statement complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 regulations/legislation regarding safety, health and the environment to the substance or mixture

There is no evidence

15.2 Assessment chemical safety;

For this product has not been assessed chemical safety;

16. Other elements

Full text of the phrases H AND EUH REFERRED TO IN SECTION 3

H 314 Causes severe skin burns and eye injuries.

H 400 Very toxic to aquatic organisms.

H 290 - can erode metals

Footnotes and Acronyms:

DNEL - Producer LEVEL WITHOUT IMPACT

EUH - CLP STATEMENT SPECIFIC RISK

ABT - persistent, bioaccumulative and toxic

PNEC - Concentration Without Impact

Number of REACH - registration number reach

Vpnb - very persistent and highly Bioaccumulative

The above information relates only to the specific product of our company, based on the current level of our knowledge and does not constitute a guarantee for any special features of the product.