

SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product code : AI-Det

Trades code : Cod. ISS A01111 Cod. 2053-0005 -

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

Dishwashing machine

Sectors of use:

Public domain[SU22]

Product category:

Washing and Cleaning Products (including solvent based products)

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Responsible for placing on the market

ARISTARCO S.p.A. Via del Lavoro, 30 31033 Castelfranco Veneto (TV) Italy T. +39 0423.425611

maicol.franco@aristarco.it

Produced by: Icefor spa via Pablo Picasso, 16 - 20013 Magenta (MI)

1.4. Emergency telephone numberCAV Osp. Pediatrico Bambino Gesù, Roma,
Piazza Sant'Onofrio, 4, 00165 Tel. 06-68593726Az. Osp. Univ. Foggia, Foggia,
V.le Luigi Pinto, 1, 71122 Tel. 0881-732326Az. Osp. "A. Cardarelli", Napoli,
Via A. Cardarelli, 9, 80131 Tel. 081-7472870CAV Policlinico "Umberto I", Roma,
V.le del Policlinico, 155, 161 Tel. 06-49978000CAV Policlinico "A. Gemelli", Roma,
Largo Agostino Gemelli, 8, 168 Tel. 06-3054343Az. Osp. "Careggi" U.O. Tossicologia Medica, Firenze,
Largo Brambilla, 3, 50134 Tel. 055-7947819CAV Centro Nazionale di Informazione Tossicologica, Pavia,
Via Salvatore Maugeri, 10, 27100 Tel. 0382-24444Osp. Niguarda Ca' Granda, Milano,
Piazza Ospedale Maggiore, 3, 20162 Tel. 02-66101029Azienda Ospedaliera Papa Giovanni XXII, Bergamo,
Piazza OMS, 1, 24127 Tel. 800883300**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):

Skin Corr. 1A, Eye Dam. 1

Hazard statement Code(s):

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

2 / 9

In conformity to Regulation (EU) 2015/830

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):
H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

Prevention

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

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.

Contains:

potassium hydroxide, sodium hydroxide

Contains (Reg.EC 648/2004):

5% < 15% phosphates

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

Irrrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
potassium hydroxide	> 10 <= 20%	Acute Tox. 4, H302; Skin Corr. 1A, H314	019-002-00-8	1310-58-3	215-181-3	01- 211948713
Sodium silicate	> 5 <= 10%	Skin Irrit. 2, H315;		1344-09-8	215-687-4	01-211944

SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

3 / 9

In conformity to Regulation (EU) 2015/830

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
		Eye Irrit. 2, H319; STOT SE 3, H335				8725-31
sodium hydroxide	>= 2 < 5%	Skin Corr. 1A, H314	011-002-00-6	1310-73-2	215-185-5	01- 211945789

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 with 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.

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

SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

4 / 9

In conformity to Regulation (EU) 2015/830

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:

Nothing 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.

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)

Public domain:

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

SECTION 8. Exposure controls/personal protection

SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

5 / 9

In conformity to Regulation (EU) 2015/830

8.1. Control parameters

Related to contained substances:

sodium hydroxide:

Specification: DNEL (EC)

Parameter: local long term Inhalation Effects Employees

Value: 1 mg/m³

Version/date:

Specification: DNEL (EC)

Parameter: local long term Inhalation Effects Population

Value: 1 mg/m³

Version/date:

Specification: TLV/TWA (EC)

Value: 2 mg/m³

Notes: ACGIH

Version/date:

- Substance: potassium hydroxide

DNEL

Local effects Long term Workers inhalation = 1

Local effects Long term Consumers inhalation = 1 (mg/m³)

- Substance: Sodium silicate

DNEL

Systemic effects Long term Workers inhalation = 5,61 (mg/m³)

Systemic effects Long term Workers dermal = 1,59 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,38 (mg/m³)

Systemic effects Long term Consumers dermal = 0,8 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,8 (mg/kg bw/day)

PNEC

Sweet water = 7,5 (mg/l)

Sea water = 1 (mg/l)

intermittent emissions = 7,5 (mg/l)

STP = 348 (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:

Public domain:

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)



SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

6 / 9

In conformity to Regulation (EU) 2015/830

(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

Physical and chemical properties	Value	Determination method
Appearance	amber clear liquid	
Odour	typical	
Odour threshold	not determined	
pH	13-14	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	not determined	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	1,20-1,24	
Solubility	in water	
Water solubility	complete	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

7 / 9

In conformity to Regulation (EU) 2015/830

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

10.5. Incompatible materials

It can generate inflammable gases to contact with halogenated organic substances, elementary metals.

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 = 2.220,4 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(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:

potassium hydroxide:

LD50 (rat) Oral (mg/kg body weight) = 333

Sodium silicate:

LD50 (rat) Oral (mg/kg body weight) = 3400

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2,06

sodium hydroxide:

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1350

SECTION 12. Ecological information

SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

8 / 9

In conformity to Regulation (EU) 2015/830

12.1. Toxicity

Related to contained substances:

Sodium silicate:

C(E)L50 (mg/l) = 1108

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

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

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. Operate according to local or national regulations

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 shrink-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 potassio, Idrossido di sodio)

ADR/RID/IMDG: CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, sodium hydroxide)

ICAO-IATA: CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, sodium hydroxide)

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

SAFETY DATA SHEET

PH STOVIL PENTOLE

Issued on 07/05/2013 - Rel. # 1 on 02/05/2019

9 / 9

In conformity to Regulation (EU) 2015/830

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

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3
H302 = Harmful if swallowed.
H314 = Causes severe skin burns and eye damage.
H315 = Causes skin irritation.
H319 = Causes serious eye irritation.
H335 = May cause respiratory irritation.

Classification based on data of all mixture components