

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

Product name : DUAL ATCLEAN  
Product code: refer to sales department

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

Descaling alkaline detergent for ACT.O ovens

Sectors of use:

Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Use in closed, continuous process with occasional controlled exposure[PROC2], Transfer of substance or mixture (charging and discharging) at nondedicated facilities[PROC8A]

Not recommended uses

Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

Distributore esclusivo/Exclusive supplier:

ANGELO PO Grandi Cucine

41012 Carpi (Italy) S/S Romana Sud, 90

Tel. +39.059.639411 - Fax +39.059.642499

e-mail: [angelopo@angelopo.it](mailto:angelopo@angelopo.it) <http://www.angelopo.it>

**1.4. Emergency telephone number**

Centralino/Switchboard +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT+1; Lingua/Language: Italiano, English)

**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.

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

P260 - Do not breathe 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.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Contains:

Sodium hydroxide, Potassium hydroxide

Contains (Reg.EC 648/2004):

< 5% non-ionic surfactants, polycarboxylates

## 2.3. Other hazards

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

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Dlgs n. 81. April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and quantity of dangerous chemical agent and method and frequency of exposure to the agent, there is only a "moderate Risk" for the health and safety of workers and that the measures laid down in the Decree are sufficient to reduce the risk.

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

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Sodium hydroxide	> 20 <= 30%	Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	011-002-00-6	1310-73-2	215-185-5	01-2119457 892-27-XXX X
Potassium hydroxide	> 10 <= 20%	Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1A, H314	019-002-00-8	1310-58-3	215-181-3	01-2119487 136-33-XXX X
Polycarboxylate substance for which there are Community workplace exposure limits	> 0,1 <= 1%					

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Ventilate 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 off immediately contaminated clothing.  
In case of contact with skin, wash immediately with water.  
Immediately consult a physician.

#### 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 or a doctor.

## SECTION 5. Firefighting measures

**5.1. Extinguishing media**

Suggested extinguishing media:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media 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 clothing.

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

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas 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:

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

Provide a sufficient ventilation.

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

**6.2. Environmental precautions**

Contain spills with earth or sand.

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

Dispose of the waste material in compliance with the regulations

**6.3. Methods and material for containment and cleaning up**

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)

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

Prevent it from entering the sewer system.

6.3.2 Cleaning up:

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

6.3.3 Other information:

None in particular.

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**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 unlabelled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

**7.3. Specific end use(s)**

Public domain (administration, education, entertainment, services, craftsmen):  
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

See the annex exposure scenario.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

=====  
Related to contained substances:  
Sodium hydroxide:  
Limit value – Eight hours  
(ppm)/(mg/m<sup>3</sup>)  
Australia: x/x  
Austria: x/2 inhalable aerosol  
Belgium: x/2  
Canada – Ontario: x/x  
Canada – Québec: x/x  
Denmark: x/2  
Finland: x/x  
France: x/2  
Hungary: x/2  
Ireland: x/x  
Latvia: x/0,5  
New Zealand: x/x  
People's Republic of China: x/x  
Poland: x/0,5  
Singapore: x/x  
South Korea: x/x  
Spain: x/2  
Sweden: x/1

Switzerland: x/2 inhalable aerosol  
USA – NIOSH: x/x  
USA – OSHA: x/2  
United Kingdom: x/x

## Limit Value – Short Term

(ppm)/(mg/m<sup>3</sup>)

Australia: x/2(1)

Austria: x/4 inhalable aerosol

Belgium: x/x

Canada - Ontario: x/2(1)

Canada – Québec: x/2(1)

Denmark: x/2

Finland: x/2(1)

France: x/x

Hungary: x/2

Ireland: x/2(1)

Latvia: x/x

New Zealand: x/2(1)

People's Republic of China: x/2(1)

Poland: x/1

Singapore: x/2

South Korea: x/2(1)

Spain: x/x

Sweden: x/2(1)(2)

Switzerland: x/2 inhalable aerosol

USA – NIOSH: x/2(1)

USA – OSHA: x/x

United Kingdom: x/2

## Remarks:

Australia: (1) Ceiling limit value

Canada – Ontario: (1) Ceiling limit value

Canada – Québec: (1) Ceiling limit value

Finland: (1) Ceiling limit value

Ireland: (1) 15 minutes reference period

New Zealand: (1) Ceiling limit value

People's Republic of China: (1) Ceiling limit value

South Korea: (1) Ceiling limit value

Sweden: (1) Inhalable dust (2) Ceiling limit value

USA – NIOSH: (1) Ceiling limit value (15 min)

Tipo OEL: ACGIH -- Nazione: ITALY - STEL: C 2.0 mg/m<sup>3</sup>Tipo OEL: ACGIH - STEL: C2 mg/m<sup>3</sup> - Note: URT, eye, and skin irr

## Potassium hydroxide:

TLV :2 mg/m<sup>3</sup> (valore ceiling) (ACGIH 2000).

## Polycarboxylate:

TWA frazione di polvere respirabile (DOW IHG) : 0,5 mg/m<sup>3</sup>

- Substance: Sodium hydroxide

## DNEL

Systemic effects Short term Workers inhalation = 1 (mg/m<sup>3</sup>)Systemic effects Short term Consumers inhalation = 1 (mg/m<sup>3</sup>)Local effects Short term Workers inhalation = 1 (mg/m<sup>3</sup>)Local effects Short term Consumers inhalation = 1 (mg/m<sup>3</sup>)

- Substance: Potassium hydroxide  
 DNEL  
 Local effects Long term Workers inhalation = 1  
 Local effects Long term Consumers inhalation = 1 (mg/m<sup>3</sup>)

### 8.2. Exposure controls



Appropriate engineering controls:  
 Public domain (administration, education, entertainment, services, craftsmen):  
 No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

#### 8.2.2 Individual protection measures:

- (a) Eye / face protection  
 When handling the pure product use safety glasses (EN 166).
- (b) Skin protection
  - (i) Hand protection  
 When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3) or other protective equipment, according to the instructions of the employer
  - (ii) Other  
 When handling the pure product, wear full protective clothing (generic workwear / antacid, safety shoes S3-EN ISO 20345) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic
- (c) Respiratory protection  
 Not needed for normal use.  
 During manual operations in case of insufficient ventilation, use mask with gas filters and inorganic vapors - Grey , Class 3 , B (EN 405) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic
- (d) Thermal hazards  
 No hazard to report

Environmental exposure controls:  
 Use according to good working practices and avoid to disperse the product 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	Opalescent amber yellow liquid	
Odour	Not determined because it is considered not relevant for characterization of the product	
Odour threshold	Not determined because it is considered not relevant for characterization of the product	

Physical and chemical properties	Value	Determination method
pH	> 12 (20°C; sol. 5%)	
Melting point/freezing point	Not determined because it is considered not relevant for characterization of the product	
Initial boiling point and boiling range	Not determined because it is considered not relevant for characterization of the product	
Flash point	Not determined because it is considered not relevant for characterization of the product	
Evaporation rate	Not determined because it is considered not relevant for characterization of the product	
Flammability (solid, gas)	Not determined because it is considered not relevant for characterization of the product	
Upper/lower flammability or explosive limits	Not determined because it is considered not relevant for characterization of the product	
Vapour pressure	Not determined because it is considered not relevant for characterization of the product	
Vapour density	Not determined because it is considered not relevant for characterization of the product	
Relative density	1,40 ± 0,05 (20°C)	
Solubility	in water	
Water solubility	Miscible in all proportions	
Partition coefficient: n-octanol/water	Not determined because it is considered not relevant for characterization of the product	
Auto-ignition temperature	Not determined because it is considered not relevant for characterization of the product	
Decomposition temperature	Not determined because it is considered not relevant for characterization of the product	
Viscosity	Not determined because it is considered not relevant for characterization of the product	
Explosive properties	Not determined because it is considered not relevant for characterization of the product	
Oxidising properties	Not determined because it is considered not relevant for characterization of the product	

### 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

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Related to contained substances:  
Sodium hydroxide:  
Highly reactive product

Potassium hydroxide:  
It is not pyrophoric



**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 flammable gases in 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 = 2.694,4 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: Sodium hydroxide: Ingestion - LD50 rat (mg / kg / 24h bw): nd

Skin contact - LC50 rabbit (mg / kg / 24h bw): 1350

Inhalation - LD50 rat (mg / l / 4h): nd

Potassium hydroxide: Ingestion - LD50 rat (mg / kg / 24h bw): 388

Contact with skin - LC50 rat / rabbit (mg / kg / 24h bw): nd

Inhalation - LD50 rat (mg / l / 4h): nd

Polycarboxylate: Ingestion - LD50 rat (mg / kg / 24h bw): > 5000

Contact with skin - LD50 rabbit (mg / kg / 24h bw): > 5000

Inhalation - LC50 rat (mg / l / 4h): nd

(b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.

Sodium hydroxide: Corrosive

Potassium hydroxide: Corrosive

Polycarboxylate: Non-corrosive

Sodium hydroxide: Irritating

Potassium hydroxide: Irritating

Polycarboxylate: Slightly irritating

(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.

Sodium hydroxide: Corrosive

Potassium hydroxide: Corrosive

Polycarboxylate: Non-corrosive

Sodium hydroxide: Irritating

Potassium hydroxide: Irritating

Polycarboxylate: Slightly irritating

- (d) respiratory or skin sensitization: Sodium hydroxide: Not sensitizing  
Potassium hydroxide: Non-sensitizing  
Polycarboxylate: Non-sensitizing
- (e) germ cell mutagenicity: Sodium hydroxide: Not mutagenic  
Potassium hydroxide: Non-mutagenic  
Polycarboxylate: Non-mutagenic
- (f) carcinogenicity: Sodium hydroxide: Not carcinogenic  
Potassium hydroxide: Non-carcinogenic  
Polycarboxylate: Non-carcinogenic
- (g) reproductive toxicity: Sodium hydroxide: Non-toxic for reproduction  
Potassium hydroxide: Non-toxic for reproduction  
Polycarboxylate: Not available
- (h) specific target organ toxicity (STOT) single exposure: Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosols and by ingestion.  
Potassium hydroxide: Not available  
Polycarboxylate: Not available
- (i) specific target organ toxicity (STOT) repeated exposure: Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosols and by ingestion. The symptoms of pulmonary edema often do not manifest themselves before a few hours and are exacerbated by physical exertion. Rest and medical observation are therefore essential  
Potassium hydroxide: Not available  
Polycarboxylate: Not available
- (j) aspiration hazard: Sodium hydroxide: Not available  
Potassium hydroxide: Not available  
Polycarboxylate: Not available

=====  
Related to contained substances:  
Sodium hydroxide:  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1350

Potassium hydroxide:  
LD50 (rat) Oral (mg/kg body weight) = 388

## SECTION 12. Ecological information

### 12.1. Toxicity

=====  
Related to contained substances:  
Sodium hydroxide:  
Acute toxicity - LC50 fish (mg / l / 96h): 45  
Acute toxicity - crustaceans EC50 (mg / l / 48h): 40  
Acute toxicity algae ErC50 (mg / l / 72-96h): nd  
Chronic toxicity - NOEC fish (mg / l): nd  
Chronic toxicity - crustaceans NOEC (mg / l): nd  
Chronic toxicity NOEC algal (mg / l): nd

Potassium hydroxide:  
Acute toxicity - LC50 fish (mg / l / 96h): 80  
Acute toxicity - crustaceans EC50 (mg / l / 48h): nd  
Acute toxicity algae ErC50 (mg / l / 72-96h): nd  
Chronic toxicity - NOEC fish (mg / l): nd  
Chronic toxicity - crustaceans NOEC (mg / l): nd  
Chronic toxicity NOEC algal (mg / l): nd  
C(E)L50 (mg/l) = 80

**Polycarboxylate:**

LC50, Oncorhynchus mykiss (Rainbow trout), 96 h, 700 mg / l

EC50, Daphnia magna (Water flea), 48 h, &gt; 1 000 mg / l

EC50, Marine algae (Skeletonema costatum), 72 h, Speed of growth, 480 mg / l

For similar material (s)

(NOEC), Daphnia magna (Large water flea), Continuous flow test, 21 d, number of offspring, 12 mg / l

For similar material (s)

MATC (Maximum Acceptable Toxicant Level), Daphnia magna (Large water flea), Continuous flow test, 21 d, number of descendants, 17 mg / l

Information on a similar product: CL50, Eisenia fetida (earthworms), 14 days, &gt; 1 000 mg / kg

Use according to good working practices and avoid to disperse the product into the environment.

**12.2. Persistence and degradability**

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Related to contained substances:

Sodium hydroxide:

Not applicable

Potassium hydroxide:

Not applicable

Polycarboxylate:

The material is expected to biodegrade very slowly (in the environment). It does not pass the OECD / EEC tests for rapid biodegradability.

**12.3. Bioaccumulative potential**

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Related to contained substances:

Sodium hydroxide:

Not bioaccumulative

Potassium hydroxide:

Not bioaccumulative

Polycarboxylate:

Not available

**12.4. Mobility in soil**

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Related to contained substances:

Sodium hydroxide:

Not applicable

Potassium hydroxide:

Not available

Polycarboxylate:

Not available

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### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

## 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: 3266

If subject to the following characteristics is ADR exempt:

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

Inner packaging 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 INORGANICO CORROSIVO, BASICO, N.A.S. (Idrossido di sodio e Idrossido di potassio in miscela)

ADR/RID/IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide and Potassium hydroxide in mixture)

ICAO-IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide and Potassium hydroxide in mixture)

### 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 : No**14.6. Special precautions for user**

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

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

Transport in bulk is not foreseen

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable  
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC  
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC  
Reg. EC 648/04: see 2.2  
Reg. (EU) n. 1169/2011: see 2.2

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**

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**16.1. Other information**

Description of hazard statements set out in paragraph 3

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H302 = Harmful if swallowed.

Classification based on data of all mixture components

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.

Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Procedure used to classify under CLP mixture (Reg . EC 1272/2008):

Physical hazards: On the basis of experimental data

H314 Skin. Corr. 1A: On the basis of experimental data / Calculation Method

Other hazards: Calculation Method

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure  
STOT (SE): Single Exposure  
STP: Sewage Treatment Plants  
SU: Sector of Use  
SVCH: Substance of Very High Concern  
TLV: Threshold Limit Value  
vPvB: Very Persistent Very Bioaccumulative

**References and Sources:**

- ECHA Registered Substances:  
• <https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

\*\*\* this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: fist emission

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## AISE GEIS.2.1.a.v1

Version: 1.0, May 2014



Nederlandse Vereniging van Zeeffabrikanten

### Using a professional product in a semi closed system

Operational conditions	
Maximum duration	480 minutes per day.
Process conditions	Process is carried out at room temperature.
	No LEV needed; good general ventilation at workplace is sufficient.

Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	No PPE necessary.

Good practise advice	
Don't eat or drink, don't smoke, no open flame	
Wash hands after use Avoid contact with damaged skin Do not mix with other products	
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.

Enviromental measures	
Prevent that the undiluted product reaches surface waters.	



<b>Properties of product composition</b>
In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.
The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.
Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.
This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.

<b>Use descriptors</b>	
<b>SU 22</b>	Professional use
<b>PC 35</b>	Washing and cleaning product
<b>PROC 2</b>	Use in closed, continuous process with occasional controlled exposure
<b>ERC 8a</b>	Wide dispersive indoor use of processing aids in open systems
	<b>If appropriate AISE SpERC 8a.1.a.v2 may apply:</b> Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

***Disclaimer:** This is a generic document for communicating conditions of safe use of a product. If a GEIS code is mentioned in Section 1 of the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the GEIS CSP documents is safe, according to the GEIS Formulator Guidance. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.*

*Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following GEIS conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Generic Exposure Information Sheets should always be considered in combination with the SDS and the label of the product. The GEIS Guidance for End Users provides more information.*

*The A.I.S.E. or the NVZ are under no conditions liable for any damage, no matter of what kind, which is the direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.*






## AISE GEIS.8a.1.a.v1

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### Transfer of professional product to a container (bottle/bucket/machine)

Operational conditions	
Maximum duration	50 minutes per day.
Process conditions	Process is carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45 degrees Celcius is used.
	No LEV needed; good general ventilation at workplace is sufficient.
Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	Use gloves and safety goggles. See Section 8 of the SDS of this product for specifications. 
	Training of the worker in relation to proper use and maintenance of the PPE must be ensured.
Good practise advice	
Don't eat or drink, don't smoke, no open flame	
Wash hands after use Avoid contact with damaged skin Do not mix with other products	
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.
Enviromental measures	
Prevent that the undiluted product reaches surface waters.	

<b>Properties of product composition</b>
In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.
The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.
Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.
This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.

<b>Use descriptors</b>	
<b>SU 22</b>	Professional use
<b>PC 35</b>	Washing and cleaning product
<b>PROC 8a</b>	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
<b>ERC 8a</b>	Wide dispersive indoor use of processing aids in open systems <b>If appropriate AISE SpERC 8a.1.a.v2 may apply:</b> Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

**Disclaimer:** This is a generic document for communicating conditions of safe use of a product. If a GEIS code is mentioned in Section 1 of the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the GEIS CSP documents is safe, according to the GEIS Formulator Guidance. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

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