

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

Product name : CAL-PEARLS
Product code: refer to sales department

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

Descaling acidic detergent for ACT.O ovens

Sectors of use:

Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Use in closed process, no likelihood of exposure[PROC1], Use in closed, continuous process with occasional controlled exposure[PROC2], Transfer of substance or preparation (charging/discharging) from/to ves- sels/large containers at non-dedicated facilities[PROC8A], Transfer of substance or preparation (charging/discharging) from/to ves- sels/large containers at dedicated facili- ties[PROC8B], Treatment of articles by dipping and pouring[PROC13], Application with rollers or brushes [PROC10]

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 <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:

GHS07

Hazard Class and Category Code(s):

Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3

Hazard statement Code(s):

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours, if brought into contact with skin, it causes significant inflammation with erythema, scabs, or edema

The product is dangerous to the environment as it is harmful to aquatic life with long lasting effects

2.2. Label elements

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

Pictogram, Signal Word Code(s):

GHS07 - Warning



Hazard statement Code(s):

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

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

Response

P302+P352 - IF ON SKIN: Wash with plenty of water.

Disposal

P501 - Dispose of contents/container to local/regional/national/international regulations

Contains (Reg.EC 648/2004):

< 5% non-ionic surfactants

2.3. Other hazards

The substance / mixture does NOT contain 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

Irrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
sulphamic acid	> 50 <= 100%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	016-026-00-0	5329-14-6	226-218-8	01-2119488 633-28-XXX X
Alkyl polyglycol ether C12-18	> 0,1 <= 1%	Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 3, H412		146340-16-1		

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.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

In case of contact with skin, wash immediately with water.

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:

Not hazardous. It's possible to give activated charcoal in water or medicinal mineral vaseline oil.

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

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

SECTION 5. Firefighting measures**5.1. Extinguishing media****Suggested extinguishing media:**

Water spray, CO2, 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
Inform the competent 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
Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:

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

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Wear protective gloves/protective clothing/eye protection/face protection.
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)**Industrial Manufacturing:**

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

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

- Substance: sulphamic acid

DNEL

Systemic effects Long term Workers inhalation = 70,5 (mg/m³)

Systemic effects Long term Workers dermal = 10 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 17,4 (mg/m³)

Systemic effects Long term Consumers dermal = 5 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 1,06 (mg/kg bw/day)

PNEC

Sweet water = 1,8 (mg/l)

sediment Sweet water = 8,36 (mg/kg/sediment)

Sea water = 0,18 (mg/l)

sediment Sea water = 0,84 (mg/kg/sediment)

STP = 20 (mg/l)

ground = 5 (mg/kg ground)

8.2. Exposure controls



Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

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 employe

(ii) Other

When handling the pure product, wear full protective clothing (generic workwear / antacid, safety shoes S3-EN ISO 20345) or other protective equipment, according to the instructions of the employer

(c) Respiratory protection

Not needed for normal use.

During manual operations in case of insufficient ventilation, use mask with dust filter - White, P (EN 143) 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	White crystalline powder	
Odour	not determined as deemed not relevant to the characterization of the product	
Odour threshold	not determined as deemed not relevant to the characterization of the product	
pH	1,5 ± 0,5 (20 ° C; 1% sol)	
Melting point/freezing point	not determined as deemed not relevant to the characterization of the product	
Initial boiling point and boiling range	not determined as deemed not relevant to the characterization of the product	
Flash point	not determined as deemed not relevant to the characterization of the product	
Evaporation rate	not determined as deemed not relevant to the characterization of the product	
Flammability (solid, gas)	not determined as deemed not relevant to the characterization of the product	
Upper/lower flammability or explosive limits	not determined as deemed not relevant to the characterization of the product	
Vapour pressure	not determined as deemed not relevant to the characterization of the product	
Vapour density	not determined as deemed not relevant to the characterization of the product	
Relative density	1,65 ± 0,05 (20 ° C)	
Solubility	in water	
Water solubility	easily soluble in recommended dosages	
Partition coefficient: n-octanol/water	not determined as deemed not relevant to the characterization of the product	
Auto-ignition temperature	not determined as deemed not relevant to the characterization of the product	
Decomposition temperature	not determined as deemed not relevant to the characterization of the product	
Viscosity	not determined as deemed not relevant to the characterization of the product	
Explosive properties	not determined as deemed not relevant to the characterization of the product	
Oxidising properties	not determined as deemed not relevant to the characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Exothermic reactions in contact with strong oxidizing agents are possible.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Sulfamic acid: Hazardous reaction in aqueous solution may occur with chlorine, hypochlorous acid, hypochlorite, cyanide and sulfides.

10.4. Conditions to avoid

Water, humidity, heat.

10.5. Incompatible materials

Strong alkalis, strong oxidizing agents, chlorine, nitric acid.

10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, potentially harmful vapors can be released (NO_x, NH₃, SO_x). Sulfamic acid: decomposes with heat at 209 ° C / 408 ° C to release sulfur dioxide, sulfur trioxide, ammonia and gas.

SECTION 11. Toxicological information**11.1. Information on toxicological effects**

ATE(mix) oral = ∞

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: sulphamic acid: Ingestion-rat LD50 (mg/kg/bw 24h): 31603

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): > 2000

Inhalation-rat LD50 (mg/l/4h): n.a.

Alkyl polyglycol ether C12-18: Ingestion-rat LD50 (mg/kg/bw 24h): > 2000

Skin contact-LC50 rat/coniglio (mg/kg/bw24h): n.a.

Inhalation-rat LD50 (mg/l/4:00): n.a.

(b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

sulphamic acid: Non-corrosive

Alkyl polyglycol ether C12-18: Non-corrosive

sulphamic acid: Non-irritating

Alkyl polyglycol ether C12-18: Irritating

(c) serious eye damage/irritation: If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours.

sulphamic acid: Non-corrosive

Alkyl polyglycol ether C12-18: Non-corrosive

sulphamic acid: Moderately irritating

Alkyl polyglycol ether C12-18: Irritating

(d) respiratory or skin sensitization: sulphamic acid: Not available

Alkyl polyglycol ether C12-18: Non-sensitizing

(e) germ cell mutagenicity: sulphamic acid: Non-mutagenic

Alkyl polyglycol ether C12-18: Non-mutagenic

(f) carcinogenicity: sulphamic acid: Not available

Alkyl polyglycol ether C12-18: Non-carcinogenic

(g) reproductive toxicity: sulphamic acid: Not available

Alkyl polyglycol ether C12-18: Non-toxic for reproduction

(h) specific target organ toxicity (STOT) single exposure: sulphamic acid: Not available

Alkyl polyglycol ether C12-18: Not available

(i) specific target organ toxicity (STOT) repeated exposuresulphamic acid: Not available

Alkyl polyglycol ether C12-18: Not available

(j) aspiration hazard: sulphamic acid: Not available

Alkyl polyglycol ether C12-18: Not available

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Related to contained substances:

sulphamic acid:

LD50 (rat) Oral (mg/kg body weight) = 3160

SECTION 12. Ecological information

12.1. Toxicity

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Related to contained substances:

sulphamic acid:

Acute toxicity-fish LC50 (mg/l/96h): 70.3

Acute toxicity-crustacea EC50 (mg/l/48 h): 71.6

Acute algae toxicity ErC50 (mg/l/72-96h): 33.8 -48

C(E)L50 (mg/l) = 70

Alkyl polyglycol ether C12-18:

Acute toxicity - LC50 fish (mg / l / 48h):> 0.1 - 1

Acute toxicity - crustaceans EC50 (mg / l / 24h):> 0.1 - 1

Acute toxicity algae ErC50 (mg / l / 72-96h):> 0,1 - 1

Chronic toxicity - NOEC fish (mg / l): nd

Chronic toxicity - crustaceans NOEC (mg / l):> 0.1 - 1 (Daphnia magna - OECD - guideline 202 part 2)

Toxicity chronic NOEC algae (mg / l): nd

The product is dangerous for the environment as it is toxic for aquatic organisms following acute exposure.

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:
sulphamic acid:
Not available

Alkyl polyglycol ether C12-18:
Easily biodegradable

12.3. Bioaccumulative potential

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Related to contained substances:
sulphamic acid:
Not available

Alkyl polyglycol ether C12-18:
Not bioaccumulative

12.4. Mobility in soil

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Related to contained substances:
sulphamic acid:
Not available

Alkyl polyglycol ether C12-18:
Possible absorption in the solid phase of the soil

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. Send to authorized discharge plants or for incineration under controlled conditions. Operate

according to local and National rules in force

SECTION 14. Transport information

14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 2967

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 kg per package 30 Kg

Inner packaging placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 kg per package 20 Kg



14.2. UN proper shipping name

ADR/RID/IMDG: ACIDO SOLFAMMICO

ADR/RID/IMDG: SULPHAMIC ACID

ICAO-IATA: SULPHAMIC ACID

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 : 5 kg

IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

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:
HP4 - Irritant — skin irritation and eye damage

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 hazard statements set out in paragraph 3

H315 = Causes skin irritation.
H319 = Causes serious eye irritation.
H412 = Harmful to aquatic life with long lasting effects.
H400 = Very toxic to aquatic life.

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): 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: Environment 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 by technical Office 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)



AISE GEIS.1.1.a.v1

Version: 1.0, May 2014



Nederlandse Vereniging van Zeefabrikanten

Using a professional product in a 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.

Environmental measures	
Prevent that the undiluted product reaches surface waters.	

Properties of product composition

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.

Use descriptors

SU 22	Professional use
PC 35	Washing and cleaning product
PROC 1	Use in closed process, no likelihood of exposure
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: 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.

ANGELO PO**ES.1.1.a.v1***Version: 1.0, May 2014***Using a professional product in a 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.	

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Use descriptors

SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 1	Use in closed process, no likelihood of exposure
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: 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 the employer of workers that use products that are assessed as safe remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Information Sheets should always be considered in combination with the SDS and the label of the product.*



AISE GEIS.2.1.a.v1

Version: 1.0, May 2014



Nederlandse Vereniging van Zeepfabrikanten

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.

Environmental measures	
Prevent that the undiluted product reaches surface waters.	

Properties of product composition	
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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.	

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

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ANGELO PO



ES.2.1.a.v1

Version: 1.0, May 2014

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.

Environmental measures	
Prevent that the undiluted product reaches surface waters.	

Properties of product composition

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.

Use descriptors

SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 2	Use in closed, continuous process with occasional controlled exposure
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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AISE GEIS.8a.1.a.v1

Version: 1.0, May 2014




Nederlandse Vereniging van Zeefabrikanten

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.
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Properties of product composition

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.




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

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ANGELO PO**ES.8a.1.a.v1***Version: 1.0, May 2014***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.	

Properties of product composition	
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.	

Use descriptors	
SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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AISE GEIS.8b.1.a.v1

Version: 1.0, May 2014



Nederlandse Vereniging van Zeefabrikanten

Transfer of professional product via a dedicated system (bottle/machine)

Operational conditions	
Maximum duration	40 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.

Environmental measures	
Prevent that the undiluted product reaches surface waters.	

Properties of product composition

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.

Use descriptors

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

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ANGELO PO**ES.8b.1.a.v1***Version: 1.0, May 2014***Transfer of professional product via a dedicated system (bottle/machine)**

Operational conditions	
Maximum duration	40 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.	

Properties of product composition

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.

Use descriptors

SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
ERC 8a	Wide dispersive indoor use of processing aids in open systems If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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AISE GEIS.10.1.a.v1

Version: 1.0, May 2014



Nederlandse Vereniging van Zeepefabrikanten

Brushing a diluted professional product

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.
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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.

Environmental measures

Prevent that the undiluted product reaches surface waters.

Properties of product composition	
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 allegric reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.	

Use descriptors	
SU 22	Professional use
PC 35	Washing and cleaning product
PROC 10	Roller application or brushing
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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ANGELO PO**ES.10.1.a.v1***Version: 1.0, May 2014***Brushing a diluted professional product**

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.	

Properties of product composition	
In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.	
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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.	

Use descriptors	
SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 10	Roller application or brushing
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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AISE GEIS.13.1.a.v1

Version: 1.0, May 2014




Nederlandse Vereniging van Zeefabrikanten

Treatment of articles by dipping or pouring with a professional products



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.
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Properties of product composition
In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.
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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.

Use descriptors	
SU 22	Professional use
PC 35	Washing and cleaning product
PROC 13	Treatment of articles by dipping and pouring
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.


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ANGELO PO**ES.13.1.a.v1***Version: 1.0, May 2014***Treatment of articles by dipping or pouring with a professional products**

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.

Properties of product composition	
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.	

Use descriptors	
SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 13	Treatment of articles by dipping and pouring
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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AISE GEIS.13.1.b.v1

Version: 1.0, May 2014




Nederlandse Vereniging van Zeefabrikanten

Professional use of drain unblockers

Operational conditions

Maximum duration	10 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.
	 <p>Training of the worker in relation to proper use and maintenance of the PPE must be ensured.</p>

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.
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Properties of product composition
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.

Use descriptors	
SU 22	Professional use
PC 35	Washing and cleaning product
PROC 13	Treatment of articles by dipping and pouring
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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ANGELO PO



ES.13.1.b.v1

Version: 1.0, May 2014

Professional use of drain unblockers

Operational conditions	
Maximum duration	10 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	<p>Use gloves and safety goggles. See Section 8 of the SDS of this product for specifications.</p>  <p>Training of the worker in relation to proper use and maintenance of the PPE must be ensured.</p>

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.

Properties of product composition

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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.

Use descriptors	
SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 13	Treatment of articles by dipping and pouring
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

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