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	Sa	afety dat	a sheet	
		•		
SECTION 1. Identification	n of the substand	e/mixture a	nd of the company/ur	ndertaking
1.1. Product identifier Code:	01618	3		
Product name		H EFFECT A So	lution	
4.2. Delevent identified upon of the			d analysi	
1.2. Relevant identified uses of the Intended use Solution	tion for Milan Universit		a against	
1.3. Details of the supplier of the s Name		or Foto SAS		
Full address		rinetti, 32		
District and Country		7 Milano MI		
	Italy			
		039 02 26110946		
		039 02 26147831		
e-mail address of the competent per				
responsible for the Safety Data Shee	et cond	or@condor-foto.	lit	
1.4. Emergency telephone number	r			
For urgent inquiries refer to				
Azienda: 0039 02 26110946 CAV Centro nazionale di informazio	one tossicologica - Pavi	a 0382 24444		
CAV Azienda ospedaliera Papa Gio	vanni XXIII - Bergamo 8	00 833300		
CAV Az. Osp. Careggi - Firenze 055 CAV Policlinico Umberto I - Roma 0				
CAV Policlinico Gemelli - Roma 06	3054343			
CAV Az. Osp. Cardarelli - Napoli 08'	1 7472870			
SECTION 2. Hazards ide	ntification			
2.1. Classification of the substance	e or mixture.			
	res a safety datasheet that	at complies with th	ne provisions of EC Regulation	CLP) (and subsequent amendments and 1907/2006 and subsequent amendments. 2 of this sheet.
Hazard classification and indication:				
Eye irritation, category 2		H319	Causes serious eye ir	ritation.
Skin irritation, category 2 Specific target organ toxicity - single	exposure category ?	H315 H335	Causes skin irritation. May cause respiratory	virritation
opcome target organ toxicity - single	onposure, caleyory s	1000	may cause respiratory	interiori.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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\checkmark			
Signal words:	Warning		
Hazard statements:			
H319 H315 H335	Causes serious eye irritatio Causes skin irritation. May cause respiratory irrita		
Precautionary statements:			
P264 P280 P304+P340 P312 P403+P233	Wash thoroughly after Wear protective gloves / e IF INHALED: remove pers Call a POISON CENTER / Store in a well-ventilated p	ye protection / face on to fresh air and ′ doctor / / if you	eep comfortable for breathing. feel unwell.
Contains:	POTASSIUM CARBONATE		
2.3. Other hazards.			
On the basis of available da	ata, the product does not cor	ntain any PBT or vF	VB in percentage greater than 0,1%.
SECTION 3. Com	position/informatio	n on ingredie	nts.
3.1. Substances.			
Information not relevant.			
3.2. Mixtures.			
Contains:			
Identification. POTASSIUM CARBONA	TE	Conc. %.	
CAS. 584-08-7		30 - 40	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
EC. 209-529-3 INDEX			STOT SE 3 H335
Note: Upper limit is not inclu	uded into the range.		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

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4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

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Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Information not available.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

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Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

9.2. Other information.

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VOC (Directive 1999/13/EC) : VOC (volatile carbon) :	0 0		
SECTION 10. Stability an	d reactivity.		
10.1. Reactivity.	n with other substances in normal conditions of use.		
10.2. Chemical stability.			
The product is stable in normal condition	ons of use and storage.		
10.3. Possibility of hazardous read			
No nazardous reactions are foreseead	le in normal conditions of use and storage.		
10.4. Conditions to avoid.			
None in particular. However the usual	precautions used for chemical products should be respected.		
10.5. Incompatible materials.			
Information not available.			
10.6. Hazardous decomposition pr	roducts.		
Information not available.			
SECTION 11. Toxicologic	cal information.		
Ū			
11.1. Information on toxicological	effects.		
the criteria specified in the applicabl hazardous substances indicated in sec Acute effects: stinging eyes. Symptom	or the product itself, health hazards are evaluated according to the prop le regulation for classification. It is therefore necessary to take into ac ction 3, to evaluate the toxicological effects of exposure to the product. Is may include: rubescence, edema, pain and lachrymation. Including stomach pain and sting, nausea and sickness.		

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness. Acute effects: inhalation of this product may irritate the lower and upper respiratory tract and cause cough and respiratory disorders; at higher concentrations it can also cause pulmonary edema. Ingestion may cause health problems, including stomach pain and sickness.

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POTASSIUM CARBONATE LD50 (Oral).1870 mg/kg Rat

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity. Information not available.

12.2. Persistence and degradability.

POTASSIUM CARBONATE

Solubility in water.

> 10000 mg/l

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

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Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

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

Information not relevant.

SECTION 15. Regulatory information. 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. Seveso category. None. Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. Product. 3 Substances in Candidate List (Art. 59 REACH).

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None.

Substances subject to authorisarion (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods

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IMO: International Maritime Organization

- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- Regulation (EU) 453/2010 of the European Parliament
 Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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Safety data sheet								
SECTION 1. Identification	n of the substance/mixture and of the company/und	dertaking						
1.1. Product identifier								
Code:	01618							
Product name	FROTH EFFECT B Solution							
1.2. Relevant identified uses of the	e substance or mixture and uses advised against							
	tion for Milan University (2)							
1.2 Details of the overalling of the	afatu data ahaat							
1.3. Details of the supplier of the s Name	Condor Foto SAS							
Full address	Via Prinetti, 32 20127 Milano MI							
District and Country	20127 Milano Mi Italy							
	tel. 0039 02 26110946							
	fax 0039 02 26147831							
e-mail address of the competent per								
responsible for the Safety Data Shee								
1.4. Emergency telephone numbe For urgent inquiries refer to Azienda: 0039 02 26110946 CAV Centro nazionale di informazio CAV Azienda ospedaliera Papa Gio CAV Az. Osp. Careggi - Firenze 055 CAV Policlinico Umberto I - Roma 0 CAV Policlinico Gemelli - Roma 06 CAV Az. Osp. Cardarelli - Napoli 08	one tossicologica - Pavia 0382 24444 vanni XXIII - Bergamo 800 833300 7947819 6 49978000 3054343							
SECTION 2. Hazards ide	atification							
2.1. Classification of the substance	e or mixture.							
The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.								
Hazard classification and indication:								
Serious eye damage, category 1	H318 Causes serious eye dar	nage.						
2.2. Label elemente								
2.2. Label elements.								
Hazard labelling pursuant to EC Requ	lation 1272/2008 (CLP) and subsequent amendments and supplements.							

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Signal words:	Danger
Hazard statements:	
H318	Causes serious eye damage.
Precautionary statements:	
P280 P305+P351+P338	Wear protective gloves / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
P310	rinsing. Immediately call a POISON CENTER / doctor /
Contains:	ALKYL POLYGLUCOSIDE C10-16
2.3. Other hazards.	

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients. 3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	
CITRIC ACID		
CAS. 77-92-9	50 - 60	Eye Irrit. 2 H319
EC. 201-069-1		
INDEX		
Reg. no. 01-2119457026-42		
ALKYL POLYGLUCOSIDE C10-16		
CAS. 110615-47-9	5 - 10	Eye Dam. 1 H318, Skin Irrit. 2
EC. 600-975-8		H315
INDEX		
Reg. no. 01-2119489418-23		

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

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SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

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6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

CITRIC ACID				
Predicted no-effect concentration - PNEC.				
Normal value in fresh water	440	mg/l		
Normal value for fresh water sediment	34,6	mg/kg		
Normal value for marine water sediment	3,46	mg/kg		

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Normal value for the terrestrial compartment			33,1		mg/kg	g			
ALKYL POLYGLUCOS	IDE C10-16								
Predicted no-effect concentre	ration - PNEC.								
Normal value in fresh water				0,176		mg/l			
Normal value in marine wate	er			0,018		mg/l			
Normal value for fresh wate	r sediment			1,516		mg/kg	g		
Normal value for marine was	ter sediment			0,065		mg/k	mg/kg		
Normal value for water, inte				0,0295		mg/l			
Normal value of STP microorganisms				5000	5				
Normal value for the food chain (secondary poisoning)				111,11	mg/kg				
Normal value for the terrestrial compartment				0,654		mg/kg			
Health - Derived no-eff		MEL							
	Effects on consumers.				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral.			VND	35,7 mg/kg					
Inhalation.			VND	124 mg/m3			VND	420 mg/m3	
Skin.			VND	357000 mg/kg			VND	595000 mg/kg	

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

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Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Upper explosive limit. Upper explosive limit. Upper explosive limit. Upper explosive limit. Vapour pressure. Vapour density Relative density. Solubility Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties Oxidising properties	liquid Not available. Not available.
9.2. Other information.	

VOC (Directive 1999/13/EC) :	0
VOC (volatile carbon) :	0

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

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Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product. This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

ALKYL POLYGLUCOSIDE C10-16:

Acute toxicity: practically non toxic for a single skin contact. Practically non toxic for a single ingestion. Irritation:

Corrosion / skin irritation: irritating (rabbit, OECD 404 guideline).

Serious eye damage / eye irritation: irreversible damage (rabbit, OECD 405 guideline).

Respiratory or skin sensitisation: guinea pig: not sensitizing (OECD 406).

Mutagenicity on germ cells: results of some tests concerning mutagenic effects on microorganisms and mammalian cells are available. Given all information available, there is no evidence that the substance has a mutagenic affect.

Carcinogenity: information available does not show any indications of carcinogenic effects.

Toxicity for reproduction: results of tests on animals do not show any effects of damage on fertillity.

Specific toxicity on target organs: Single exposure: based on available data, no specific toxicity on target organs is expected after a single exposure. Repeated exposure: based on available data, there is no evidence of specific toxicity on target organs after repeated exposure.

Risk by aspiration: no risk by aspiration is expected.

CITRIC ACID: Skin irritation: no irritation (rabbit) - may cause skin irritation to predisposed people; eye irritation: irritating (rabbit);

Sensitization: not sensitizing for skin (maximisation test OECD TG 406,guinea pig). Mutagenicity: in vivo tests have not detected mutagenic effects; Carcinogenity: no carcinogenic or teratogenic effects have been found on test performed on animals.

Toxicity for reproduction: not toxic.

ALKYL POLYGLUCOSIDE C10-16 LD50 (Oral).> 5000 mg/kg Rat LD50 (Dermal).> 5000 mg/kg Rabbit

CITRIC ACID LD50 (Oral).5400 mg/kg (Mouse) LD50 (Dermal).> 2000 mg/kg (Rat)

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

 12.1. Toxicity.

 ALKYL POLYGLUCOSIDE

 C10-16

 LC50 - for Fish.

 EC50 - for Crustacea.

 > 10 mg

> 1 mg/l/96h OECD 203

> 10 mg/l/48h OECD 202 part 1

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ECE0 for Algon / Aquatia	10 ma///72h Dir 99/202/EEC		
EC50 - for Algae / Aquatic Plants.	> 10 mg/l/72h Dir 88/302/EEC		
EC10 for Crustacea.	> 1 mg/l/48h Daphnia magna, OECD 202 part 2 semistatic		
Chronic NOEC for Fish.	> 1 mg/l Brachydanio rerio, 28d, OECD 204 flux		
12.2. Persistence and degradab	ility.		
CITRIC ACID: biodegradability 97%	easily biodegradable according ot OECD criteria. 28 days method: OECD TG 30B rapidly biodegradable; hod: OECD TG 301E rapidly bidegradable.		
CITRIC ACID			
Solubility in water.	> 10000 mg/l		
Rapidly biodegradable.			
12.3. Bioaccumulative potential			
	accumulation on organisms is not expected. rapidly biodegradable in water and soil. Accumulation phenomena are unlikely.		
CITRIC ACID			
BCF.	3,2		
12.4. Mobility in soil.			
ALKYL POLYGLUCOSIDE C10-16 expected.	substance does not evaporate in the atmosphere from water surface. Abso	orption in the solid phase of soil is not	
12.5. Results of PBT and vPvB a	assessment.		
ALKYL POLYGLUCOSIDE C10-16: CITRIC ACID: is not a substance de	is not a substance defined PBT or vPvB. efined PBT or vPvB.		
12.6. Other adverse effects.			
Information not available.			
SECTION 13. Disposal	considerations.		
13.1. Waste treatment methods.			
Reuse when possible Product res	sidues should be considered special hazardous waste. The hazard level of w	laste containing this product should be	
evaluated according to applicable re	egulations.		
Disposal must be performed through CONTAMINATED PACKAGING	h an authorised waste management firm, in compliance with national and local	regulations.	
	ecovered or disposed of in compliance with national waste management regula	itions.	
SECTION 44 Transport	tinformation		
SECTION 14. Transport information.			
14.1. UN number.			

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Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

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

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product. Point.

3

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Substances in Candidate List (Art. 59 F	REACH).	
None.		
Substances subject to authorisarion (A	nnex XIV REACH).	
None.		
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:		
None.		
Substances subject to the Rotterdam C	Convention:	
None.		
Substances subject to the Stockholm C	Convention:	
None.		
Healthcare controls.		
	nt must not undergo health checks, provided that available risk-assessme and that the 98/24/EC directive is respected.	ent data prove that the risks related to the

15.2. Chemical safety assessment.

A chemical safety assessment has been performed by supplier for the following contained substances.

CITRIC ACID

ALKYL POLYGLUCOSIDE C10-16

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals

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- IATA DGR: International Air Transport Association Dangerous Goods Regulation

- IC50: Immobilization Concentration 50%

- IMDG: International Maritime Code for dangerous goods

- IMO: International Maritime Organization

- INDEX NUMBER: Identifier in Annex VI of CLP

- LC50: Lethal Concentration 50%

- LD50: Lethal dose 50%

- OEL: Occupational Exposure Level

- PBT: Persistent bioaccumulative and toxic as REACH Regulation

- PEC: Predicted environmental Concentration

- PEL: Predicted exposure level

- PNEC: Predicted no effect concentration

- REACH: EC Regulation 1907/2006

- RID: Regulation concerning the international transport of dangerous goods by train

- TLV: Threshold Limit Value

- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

- TWA STEL: Short-term exposure limit

- TWA: Time-weighted average exposure limit

- VOC: Volatile organic Compounds

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament

2. Regulation (EU) 1272/2008 (CLP) of the European Parliament

3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

4. Regulation (EU) 453/2010 of the European Parliament

5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament

6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament

8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.