		Version no. 4
	Nuova Ricam	bi srl
		Revision date 20/08/2015
		Printed on 20/08/2015
	DUEINUNO	Page no. 1/16
	Safety Data Sł	neet
SECTION 1. Identification of the s	substance/mixture and the	e company/undertaking
1.1. Product identification		
Name	DUEINUNO	
Chemical name and synonyms	PACK AC 15	
1.2. Relevant identified uses of the substance Description/Use Descaling acid.	or mixture and uses advised agair	ist
1.3. Details of the supplier of the safety data s	sheet Nuova Ricambi srl	
Address City and Country	Via Dei Mille, 20 20061 Carugate (MI) Italy	
	tel. 02 9253205	
	fax 02 92157705	
e-mail of the competent person,		
person responsible for the safety data sheet	info@nuovaricambi.net	
1.4. Emergency telephone number For urgent information contact	Poison Center: 02/66101029-	Company headquarters: tel 02/9253205
SECTION 2. Hazards identificatio	n	
2.1. Classification of the substance or mixture	9.	
ne product is classified as hazardous pursuant to safety data sheet according to the provisions of F irther information on health and/or environmenta	Regulation (EC) 1907/2006 and subse	
assification and hazard statements:		
Skin corrosion, category 1A	H314 H318	Causes severe skin burns and eye damage.
Serious eye damage, category 1	L910	Causes serious eye damage.

2.2. Labeling elements.

Danger identification pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments.



Warnings:

Hazard

Version no. 4

Revision date 20/08/2015 Printed on 20/08/2015

DUEINUNO

Page no. 2/16

Hazard statements:

H314

Causes severe skin burns and eye damage.

Precautionary statements:

P264	Wash thoroughly with water after handling.
P280	Wear protective gloves/protective clothing and eye protection/face protection.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor /
Contains:	NITRIC ACID sol. PHOSPHORIC ACID

2.3. Other hazards.

According to the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%.

SECTION 3. Ingredients/composition information.

3.1. Substances.

Information non applicable.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
NITRIC ACID sol.		
CAS. 7697-37-2	20 - 40	Ox. Liq. 3 H272, Skin Corr.
EC. 231-714-2		1A H314, Note B
INDEX		
Nr. Reg. 01-2119487297-23		
PHOSPHORIC ACID		
CAS. 7664-38-2	5 - 25	Met. Corr. 1 H290, Skin Corr.
EC. 231-633-2		1B H314, Note B
INDEX		
Nr. Reg. 01-2119485924-24		

Note: Upper range value excluded.

The full text of the hazard statements (H) is given in section 16 of the sheet.

SECTION 4. First aid measures.

Version no. 4

Revision date 20/08/2015 Printed on 20/08/2015

DUEINUNO

Page no. 3/16

4.1. Description of first aid measures.

EYES: Remove contact lenses, if worn. Immediately flush eyes with plenty of water for at least 30/60 minutes while keeping eyelids raised. Seek medical advice immediately.

SKIN: Remove any contaminated clothing. Shower immediately. Seek medical advice immediately.

INGESTION: Make the person drink as much water as possible. Seek medical advice immediately. Do not induce vomiting unless expressly authorized to do so by the doctor.

INHALATION: Call a doctor immediately. Remove the person to fresh air, away from the place of the accident. If the person stops breathing, perform artificial respiration. Take suitable precautions for the first-aider.

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.

APPROPRIATE EXTINGUISHING MEDIA

Use extinguishing equipment: carbon dioxide and chemical powder. For product losses and leakages that have not set on fire, water spray can be used to disperse the flammable vapors and protect those working to stop the leakage.

INAPPROPRIATE EXTINGUISHING MEDIA

Do not use water spray.

Water is not effective in extinguishing the fire, but can be used to cool closed containers exposed to the flames, preventing explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Large amounts of the product involved in a fire may seriously worsen the situation. Avoid inhaling any combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

In case of fire, cool the containers immediately to prevent the risk of explosion (product decomposition, excess pressure) and the development of substances that are potentially hazardous for the health. Always wear full fire protection equipment. Remove the product containers away from the fire if this can be done without risk.

EQUIPMENT

Normal firefighting clothing, such as self-contained, open-circuit compressed air breathing apparatus (EN 137), flameproof suit (EN469), flameproof gloves (EN 659) and Fire Brigade boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



Version no. 4

DUEINUNO

Revision date 20/08/2015 Printed on 20/08/2015

Page no. 4/16

Block the leakage if there is no hazard.

Wear appropriate protection devices (including personal protective equipment as listed in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid for both workers during handling and emergency interventions.

6.2. Environmental precautions

Do not allow the product to penetrate into sewers, surface and ground waters.

6.3. Methods and material for containment and cleaning up

Aspirate the leaked product into appropriate containers. Assess the compatibility of the container to use with the product, checking section 10. Absorb the remaining product with inert absorbent materials. Make sure that the leakage site is well aired. Check any incompatibility of the materials with the containers in section 7. Contaminated material must be disposed of in compliance with the provisions laid down in point 13.

6.4. Reference to other sections

Any information concerning personal protection and disposal are given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safety handling

Ensure appropriate earthing for the systems and persons. Avoid contact with eyes and skin. Do not inhale any dust, vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid release to the environment.

WARNING: do not store in containers other than the original one; risk of fatal errors if exchanged for drinks.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a well-ventilated place away from sources of ignition. Keep the containers hermetically sealed. Store the product in clearly labeled containers. Avoid overheating. Avoid violent knocks. Keep the containers away from any incompatible materials, check section 10.

7.3. Specific end use(s)

Information not available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Reference Regulations:

0			Nuc	ova Rio	cambi	srl		/ersion no. 4	
							F	Revision date 20/08/2015	
				DUEIN	UNO			Printed on 20/08/2015	
							F	Page no. 5/16	
CHE ITA EU	Suisse / So Italy OEL EU TLV-ACGI		Valeurs limites d`exposition aux postes de travail 2012. / Grenzwerte am Arbeitsplatz Legislative Decree no. 81 of 9 April 2008 Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC. ACGIH 2014			m			
NITRIC ACID Threshold Li									
Туре		State	TWA/8h		STEL/15min				
			mg/m3	ppm	mg/m3	ppm			
VEL		CHE	5	2	5	2			
MAK		CHE	5	2	5	2			
TLV		ITA			2.6	1			
OEL		EU			2.6	1			
TLV-ACGIH			5.2	2	10.3	4			
Health - Deriv		level - DNEL / D Effects on consumers. Local acute	MEL Systemic acute	Local chronic	Systemic	Effects on workers Local acute	Systemic	Local chronic	Systemic
Inhalation.					chronic		acute	1.3 mg/m3	chronic VND
PHOSPHORI Threshold Li									
Туре		State	TWA/8h		STEL/15min				
			mg/m3	ppm	mg/m3	ppm			
VEL		CHE	1		2				
MAK		CHE	1		2				
TLV		ITA	1		2				
OEL		EU	1		2				
TLV-ACGIH			1		3				
Health - Deriv	ved no-effect l	level - DNEL / D Effects on	MEL			Effects on			
Route of Exposi	ure	consumers. Local acute	Systemic acute	Local chronic	Systemic	workers Local acute	Systemic	Local chronic	Systemic
Inhalation.					chronic		acute	VND	chronic 2 mg/m3
(ey: C) = CEILING	: INHALAB =	- Inhalable Fract	ion; RESPIR =	Respirable Frac	ction : TORA	\C = Thoracic F	-raction.		
, 02121110	,								

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NHI = no hazard identified.

8.2. Exposure controls

Considering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure that the working environment is well ventilated using a local aspiration system. Personal protective equipment must carry the CE marking to certify conformity to the regulations in force.

Provide emergency eye wash and shower facilities.

Version no. 4

Revision date 20/08/2015 Printed on 20/08/2015

DUEINUNO

Page no. 6/16

HAND PROTECTION

Protect the hands with category III work gloves (ref. EN 374).

In choosing appropriate work glove material consider: compatibility, degradation, breakage time and permeation.

Work glove resistance to chemical agents for preparations must be checked before use, as it could be unpredictable. Glove wear depends on the duration and methods of use.

SKIN PROTECTION

Wear category III professional work clothes with long sleeves and safety footwear (ref. Directive 89/686/EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is recommended to wear a protective hood or visor combined with airtight goggles (ref. standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances in the product is exceeded, wear a mask with an B type filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use. (ref. EN 14387). In the presence of gas or other types of vapors and/or gas or vapors with particles (aerosol, fumes, mist, etc.) use combined filters.

Respiratory protection must be used if the technical measures adopted are no sufficient to limit the exposure of the workers to the considered threshold values. The protection provided by masks is in any case limited.

If the substance in question is odorless or its offactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear selfcontained, open-circuit compressed air breathing apparatus (ref. EN 137) or fresh air hose breathing apparatus (ref. EN 138). Refer to standard EN 529 to choose the appropriate respiratory protection.

ENVIRONMENTAL EXPOSURE CONTROLS

Production process emissions, including those from ventilation equipment, must be checked in order to comply with environmental protection regulations.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.2. Other information

$\mathbf{\hat{o}}$	Nuova Ricambi srl	Version no. 4
		Revision date 20/08/2015
	DUEINUNO	Printed on 20/08/2015 Page no. 7/16
VOC (Directive 1999/13/EC): VOC (volatile carbon):	0 0	
SECTION 10. Stability and	d reactivity	
10.1. Reactivity		
NITRIC ACID: decomposes at 84°C/18 PHOSPHORIC ACID: decomposes at t		
10.2. Chemical stability		
Information not available.		
10.3. Possibility of hazardous reac	tions	
The product may react violently with wa	ater.	
PHOSPHORIC ACID: explosion risk in	contact with nitromethane. May cause hazardous reactions with alkali	es and Sodium borohydride.
10.4. Conditions to avoid		
Avoid overheating. Prevent water or hu	midity from entering the containers.	
NITRIC ACID: exposure to heat and lig	ht.	
10.5. Incompatible materials		
plastics.	, reducing substances, alcohol, alkali substances and metals; aceto Ikalies, aldehydes, sulfides and peroxides.	ne, acetic acid, acetic anhydride and some
10.6. Hazardous decomposition pr	oducts	
NITRIC ACID: nitrogen oxides. PHOSPHORIC ACID: phosphorus oxic	e.	
SECTION 11. Toxicologic	al information	
11.1. Information on toxicological	offects	
	s available for the product, any health hazards have been assessed aid down in the reference regulations for the classification. Therefo	

Version no. 4

Revision date 20/08/2015

Printed on 20/08/2015 DUEINUNO Page no. 8/16 hazardous substances referred to in sect. 3, to assess the toxicological effects deriving from exposure to the product. The product is corrosive and causes serious skin burns and blisters which may also appear after exposure. The burns can cause stinging and pain. On contact with eyes it causes severe lesions and can cause corneal opacity, damage to the iris, irreversible coloring of the eye. Any vapors and/or dust are caustic for the respiratory tract and can cause lung oedema, the symptoms of which may sometime appear only after several hours. Symptoms of exposure may include: a burning sensation, coughing, asthmatic breathing, laringitis, shortage of breath, nausea and vomiting. Ingestion can seriously burn the mouth, throat and esophagus; it may case vomiting, diarrhoea, oedema, swelling to the larynx and consequent suffocation. Severe cases may include the perforation of the gastrointestinal tract. The product causes severe lesions and can cause corneal opacity, damage to the iris, irreversible colouring of the eye. NITRIC ACID sol. LC50 (Inhalation).67 ppm/4h Rat PHOSPHORIC ACID LD50 (Oral).1530 mg/kg Rat LD50 (Skin).2740 mg/kg Rabbit LC50 (Inhalation).> 0.85 mg/l/1h Rat **SECTION 12. Ecological information** Use this product according to good working practices; do not litter. Inform the competent authorities if the product reaches waterways or sewers or if it contaminates soil or vegetation. 12.1. Toxicity PHOSPHORIC ACID > 75 mg/l/96h LC50 - Fish. 12.2. Persistence and degradability NITRIC ACID sol. Solubility in water. > 1000000 mg/l Biodegradability: Figures not Available. PHOSPHORIC ACID Solubility in water. > 850000 mg/l Biodegradability: Figures not Available. 12.3. Bioaccumulative potential NITRIC ACID sol. Partition coefficient: n-< 3 octanol/water. 12.4. Mobility in the soil Information not available



Version no. 4

DUEINUNO

Revision date 20/08/2015 Printed on 20/08/2015

Page no. 9/16

12.5. Results of PBT and vPvB assessment

According to the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%.

12.6. Other adverse effects

Information not available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, if possible. Product residues are considered special hazardous waste. The hazard level of the waste which partially contains this product must be assessed according to the legal provisions in force.

The product must be disposed of by an authorized waste management company, in compliance with the national and any local laws.

Waste transport may be subject to the ADR.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recycling or disposal in compliance with the national waste management laws.

SECTION 14. Transport information

14.1. UN number.

ADR / RID, IMDG,	3264
IATA:	

14.2. UN shipping number.

ADR / RID:	CORROSIVE INORGANIC LIQUID, ACID, N.A.S. (Nitric acid, Phosphoric acid)
IMDG:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N O S
IATA:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

14.3. Transport hazard classes.

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
IATA:	Class: 8	Label: 8



0	Nuova Rica	mbi srl	Version no. 4 Revision date 20/08/2015	
	DUEINUN	0	Printed on 20/08/2015 Page no. 10/16	
14.4. Packing group.				
ADR / RID, IMDG, IATA:	Ш			
4.5. Environmental hazards.				
ADR / RID: NO				
4.6. Special precautions for users				
ADR / RID:	HIN - Kemler: -	Limited quantity 1I	Tunnel	
	Special provisions: 274		code E	
IMDG:	EMS: F-A, S-B	Limited quantity 11		
IATA:	Cargo:	Maximum quantity: -	Packing instructions: -	
	Pass.: Special instructions:	Maximum quantity: -	Packing instructions: -	
nformation non applicable.				
SECTION 15. Regulatory	/ information			
	nental regulations/legislation specific for the	substance or mixture		
Seveso category.	None.			
Restrictions to the product or the sub	stances contained therein according to Annex >	KVII Regulation (EC) 1907/2006.		
Product. Point.	3			
Substances in Candidate List (Art. 59	REACH).			
None.				
Substances subject to authorization (Annex XIV REACH).			
None.				
Substances subject to export notifica	tion Reg. (EC) 649/2012:			
None.				
Substances subject to the Rotterdam	Convention:			



Version no. 4

Revision date 20/08/2015

DUEINUNO

Printed on 20/08/2015 Page no. 11/16

None.

Substances subject to the Stockholm Convention:

None.

Health controls.

Workers exposed to this hazardous chemical agent must have their health monitored in accordance with the provisions of art. 41 of Italian Law (D.Lgs.) 81 of 9 April 2008 unless the worker's health and safety risk is deemed to be irrelevant, according to the provisions of art. 224 par. 2.

D.Lgs. 152/2006 and amendments.

Emissions:

WATER 50.04 %

15.2. Chemical safety assessment

No chemical safety assessment was drawn up for the mixture or the substances contained therein.

SECTION 16. Other information

Hazard statements (H) referred to in sections 2-3 of the sheet:

Ox. Liq. 3	Oxidizing liquid, category 3	
Met. Corr. 1	Substance or mixture corrosive to metals, category 1	
Skin Corr. 1A	Skin corrosion, category 1A	
Skin Corr. 1B	Skin corrosion, category 1B	
Eye Dam. 1	Serious eye damage, category 1	
H272	May intensify fire; oxidizer.	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	

KEY:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Half maximal effective concentration in the tested population
- EC NUMBER: Identification number in ESIS (European Chemical Substances Information System)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- IATA DGR: Dangerous Goods Regulations of the International Air Transport Association
- IC50: Half maximal inhibitory concentration in the tested population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent Bioaccumulative and Toxic according to REACH

	Nuova Ricambi srl	Version no. 4 Revision date 20/08/2015	
	DUEINUNO	Printed on 20/08/2015 Page no. 12/16	
TLV: Threshold Limit Value	ation 5 rnational Carriage of Dangerous Goods by Rail mit that should not be exceeded at any time. sure accumulative according to REACH		
satisfy himself that the information is of The document must not be interpreted	European Parliament (CLP) uropean Parliament (I Atp.) CLP) uropean Parliament uropean Parliament (II Atp.) CLP) uropean Parliament (II Atp.) CLP) uropean Parliament (IV Atp.) CLP) uropean Parliament (V Atp.) CLP) uropean Parliament (VI Atp.) CLP) pogical sheet) ology industrial Materials-7, 1989 Edition et is based on the knowledge available to the producer on the date of the complete and suitable for his own particular use. d as a guarantee of any specific properties of the product. r the direct control of the producer, the user is responsible for ensuring all be accepted for improper use.		
Amendments compared to the previou Modifications have been made to the 14.	us version. following sections:		



Version no. 4

Revision date 20/08/2015

DUEINUNO

Printed on 20/08/2015 Page no. 13/16

APPENDIX: EXPOSURE SCENARIOS - No.1

PHASE: TRANSFER OF THE PROFESSIONAL PRODUCT INTO CONTAINER (BUCKET/MACHINE) (ref AISE GEIS.8a .1.a.v1)-

Open transfer of a concentrated product (with or without diluting); the worker is directly exposed to the product. OPERATING CONDITIONS

Maximum duration

Maximum duration	50 minutes/day
Process conditions	Process performed at room temperature
	Dilute if required with tap water at a maximum
	temperature of 45 °C.
	Local exhaust ventilation (LEV) is not required; generally
	efficient ventilation in the work place is sufficient
	efficient ventilation in the work place is sufficient

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective	Use gloves and protective goggles. See sect. 8 for
equipment (PPE), health and hygiene evaluation	specifications. Staff must be trained appropriately in use
	and maintenance

GENERAL ADVICE

Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	
Leakage instructions	Dilute with water and collect.
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water.

PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

SU 22: Professional uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at nondedicated facilities



Version no. 4

Revision date 20/08/2015

DUEINUNO

Printed on 20/08/2015 Page no. 14/16

APPENDIX: EXPOSURE SCENARIOS- N.2

PHASE: TRANSFER OF PROFESSIONAL PRODUCT VIA A DEDICATED SYSTEM (BOTTLE/MACHINE)(ref. AISE GEIS. 8b. 1.a.v1)

Transfer of a product in a fully closed system. No exposure for the worker. (e.g.: Venturi system or dosing pump)

OPERATING CONDITIONS

or Brarrin to cond
Maximum duration

	Maximum duration	40 minutes/day
	Process conditions	Process performed at room temperature
		Local exhaust ventilation (LEV) is not required; generally efficient ventilation in the work place is sufficient
L		

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective	Personal protective equipment is not required.
equipment (PPE), health and hygiene evaluation	

GENERAL ADVICE

Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	
Leakage instructions	Dilute with water and collect
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water

PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

SU 22: Professional uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Version no. 4

Revision date 20/08/2015 Printed on 20/08/2015

DUEINUNO

Page no. 15/16

APPENDIX: EXPOSURE SCENARIOS-N.3 PHASE: USING A PROFESSIONAL PRODUCT IN A CLOSED SYSTEM (ref AISE GEIS 1.1.a.V1) Use of a product in a fully closed system. The worker is not exposed to the product or its vapors

(e.g. CIP washing, washing machines)

OPERATING CONDITIONS

Maximum duration	480 minutes/day
Process conditions	Process performed at room temperature
	Local exhaust ventilation (LEV) is not required; generally
	efficient ventilation in the work place is sufficient

RISK MANAGEMENT MEASURES

_			
	Conditions and measures concerning personal protective	Personal protective equipment is not required.	
	equipment (PPE), health and hygiene evaluation		

GENERAL ADVICE

Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	
Leakage instructions	Dilute with water and collect
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

SU 22: Professional uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 1: Use in a closed circuit; exposure improbable



Version no. 4

Revision date 20/08/2015

DUEINUNO

Printed on 20/08/2015 Page no. 16/16

APPENDIX: EXPOSURE SCENARIOS - No. 4

PHASE: USING A PROFESSIONAL PRODUCT IN A SEMI CLOSED SYSTEM (ref AISE GEIS 2.1.a.V1) Using a product in a machine where the worker could be exposed to the product/vapors

(e.g.: Tunnel washsing)

OPERATING CONDITIONS

Maximum duration	480 minutes/day
Process conditions	Process performed at room temperature
	Local exhaust ventilation (LEV) is not required; generally
	efficient ventilation in the work place is sufficient

RISK MANAGEMENT MEASURES

Conditions and measures concerning personal protective Personal protective equipment is not required			
contaitions and measures concerning proceeding in the solution proceeding of equipment is not required.	Conditions and measures concerning personal protective	Personal protective equipment is not required.	
equipment (PPE), health and hygiene evaluation	equipment (PPE), health and hygiene evaluation		

GENERAL ADVICE

Do not eat, drink, smoke or use live flames	
Wash hands after use. Avoid contact with damaged skin Do not mix with other products	
Leakage instructions	Dilute with water and collect
Additional advice	Follow the instructions on the label, the technical sheet and the SDS in sect. 7.

ENVIRONMENTAL MEASURES: Prevent the non-diluted product from reaching surface water PRODUCT COMPOSITION PROPERTIES

The classification of the concentrated product can be found on the label and in sect. 2 of the SDS

The product classification is based on the ingredient classification. The list of ingredients contributing to the product classification can be found in sect. 3 of the SDS.

The exposure evaluation is based on the key limit values of the ingredients indicated in sect. 8 of the SDS

The product may contain sensitizing components which may cause an allergic reaction in some people. Sect. 15 of the SDS lists these sensitizing components, where applicable to the product.

USE DESCRIPTORS

SU 22: Professional uses

PC 35: Washing and cleaning products (including solvent-based products)

PROC 2: Use in closed, continuous process with occasional controlled exposure