ILI	PA ADESIVI SRL	Revision nr. 1 Dated 08/07/2016
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	Safety data sh	neet
SECTION 1. Identification of the	e substance/mixture and of	the company/undertaking
I.1. Product identifier	NO450 NO454	
Code: Product name	M8150, M8154 LEVANTE – DETERGENTE C	CLEANING
1.2. Relevant identified uses of the substar intended use	nce or mixture and uses advised again Detergent. Professional use	
Uses advised against: no one in particular		
1.3. Details of the supplier of the safety dat	a sheet	
Name Full address District and Country	ILPA ADESIVI SRL Via Ferorelli, 4 70132 BARI (BARI) ITALIA	
	Tel. + 39 0805383837 Fax + 39 0805377807	
e-mail address of the competent person		
responsible for the Safety Data Sheet	aborricelli@ilpa.it	
1.4. Emergency telephone number For urgent inquiries refer to	zone)	support - 8,00 - 17,00 - LUN-VEN; MON-FRI)(Italian time micals Regulation Directorate 5S.1 Redgrave Court, Merton) 7HS.
SECTION 2. Hazards identificat	ion.	
2.1. Classification of the substance or mixt	ure.	
	ty datasheet that complies with the provi	Regulation 1272/2008 (CLP) (and subsequent amendments an- isions of EC Regulation 1907/2006 and subsequent amendments ven in sections 11 and 12 of this sheet.
azard classification and indication: Skin corrosion, category 1B Serious eye damage, category 1	H314 H318	Causes severe skin burns and eye damage. Causes serious eye damage.
2.2. Label elements.		
azard labelling pursuant to EC Regulation 127	2/2008 (CLP) and subsequent amendm	ents and supplements.

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Hazard pictograms:		
Signal words:	Danger	
Hazard statements:		
H314	Causes severe skin burns and eye damage.	
Precautionary statements	:	
P280 P301+P330+P331 P303+P361+P353 P305+P351+P338	Wear protective gloves / clothing and eye / face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with w IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if rinsing.	ater / shower. present and easy to do. Continue
P310	Immediately call a POISON CENTER / doctor	
Contains:	POTASSIUM HYDROXIDE ETHANOLAMINE	
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. %.	Classification 1272/2008 (CLP).
ETHANOLAMINE		
CAS. 141-43-5	1,5 - 2	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314
EC. 205-483-3		
INDEX. 603-030-00-8		
Reg. no		
POTASSIUM HYDROXIDE		
CAS. 1310-58-3	1 - 1,5	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314
EC. 215-181-3		
INDEX. 019-002-00-8		
PHOSPHORIC ACID		

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CAS. 7664-38-2 EC. 231-633-2 INDEX. 015-011-00-6 0 - 0,05

Skin Corr. 1B H314, Note B

Note: Upper limit is not included into the range.

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

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.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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.

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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.

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.

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

No use other than specified in Section 1.2 of this safety data sheet.

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SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА
	•	МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30
		декември 2003 г
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail 2012. / Grenzwerte am
0112		Arbeitsplatz
CYP	Κύπρος	К.Δ.П. 268/2001; К.Δ.П. 55/2004; К.Δ.П. 295/2007; К.Δ.П. 70/2012
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany
UZL	Сезка Керибіка	zdraví při práci
DEU	Doutophand	MAK-und BAT-Werte-Liste 2012
DEU	Deutschland Danmark	
		Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
FOT		España 2015
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud
		18.09.2001 nr 293 RT I 2001, 77, 460 - Redaktsiooni jõustumise kp:
		01.01.2008
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja
	_	terveysministeriön julkaisuja 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9
		Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ
		MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā
		2012
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values,
		AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia
		16 grudnia 2011r
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
SVN	Slovenija	Uradni list Republike Slovenije 15. 6. 2007
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
TUR	Türkiye	2000/39/EC sayılı Direktifin ekidir
EU	OELEU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;
		Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

ETHANOLAMINE

-		
Threshold	Limit	Value.
Туре		

Country TWA/8h

STEL/15min

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Route of exposure Acute local Acute systemic Chronic local workers Acute local Acute Chronic local Chronic systemic Oral. VND 3,75 mg/kg bw/d XND 3,75 mg/kg VND 3,3 mg/m3 Skin. VND VND 2 mg/m3 VND VND 3,3 mg/m3 Skin. VND VND VND 0,24 mg/kg VND VND VND 1 mg/kg bw/d POTASSIUM HYDROXIDE Type Country TWA/8h STEL/15min Functional Indiana Indiana Indiana MAK AUS 2 2 INHAL. INHAL. INHAL.	Route of exposure Acute local Acute systemic Chronic local workers Acute local Acute Chronic local Chronic systemic Oral. VND 3,75 mg/kg bw/d XND 3,75 mg/kg VND 3,3 mg/m3 Skin. VND VND 2 mg/m3 VND VND 3,3 mg/m3 Skin. VND VND VND 0,24 mg/kg VND VND VND 1 mg/kg bw/d POTASSIUM HYDROXIDE Type Country TWA/8h STEL/15min Functional Indiana Indiana Indiana MAK AUS 2 2 INHAL. INHAL. INHAL.	Normal value in marine water Normal value for fresh water sec Normal value for marine water s Normal value for water, intermitt Normal value of STP microorgar Normal value for the terrestrial c	ediment ent release hisms compartment level - DNEL / [DMEL		0,009 0,434 0,043 0,028 100	Effects on	mg/l mg/k mg/k mg/l mg/l	g/d	
Oral. VND 3,75 mg/kg bw/d Inhalation. VND 2 mg/m3 Skin. VND VND VND 0,24 mg/kg VND VND VND 0,24 mg/kg VND VND 1 mg/kg bw/d POTASSIUM HYDROXIDE TWA/8h STEL/15min Type Country TWA/8h mg/m3 ppm mg/m3 MAK AUS 2	Oral. VND 3,75 mg/kg bw/d Inhalation. VND 2 mg/m3 Skin. VND VND VND 0,24 mg/kg VND VND VND 0,24 mg/kg VND VND 1 mg/kg bw/d POTASSIUM HYDROXIDE TWA/8h STEL/15min Type Country TWA/8h mg/m3 ppm mg/m3 MAK AUS 2	Route of exposure		Acute systemic	Chronic local				Chronic local	
Inhalation. VND 2 mg/m3 VND 3,3 mg/m3 Skin. VND VND VND 0,24 mg/kg VND VND 1 mg/kg bw/d POTASSIUM HYDROXIDE Type Country TWA/8h STEL/15min STEL/15min MAK AUS 2 INHAL. INHAL.	Inhalation. VND 2 mg/m3 VND 3,3 mg/m3 Skin. VND VND VND 0,24 mg/kg VND VND 1 mg/kg bw/d POTASSIUM HYDROXIDE Type Country TWA/8h STEL/15min STEL/15min MAK AUS 2 INHAL. INHAL.	Oral.			VND	3,75 mg/kg		eyetenno -		5,000.000
POTASSIUM HYDROXIDE Threshold Limit Value. Type Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm MAK AUS 2 INHAL.	POTASSIUM HYDROXIDE Threshold Limit Value. Type Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm MAK AUS 2 INHAL.	nhalation.			VND				VND	3,3 mg/m3
Threshold Limit Value. TWA/8h STEL/15min Type Country TWA/8h ppm mg/m3 ppm mg/m3 MAK AUS 2	Threshold Limit Value. TWA/8h STEL/15min Type Country TWA/8h ppm mg/m3 ppm mg/m3 MAK AUS 2	Skin.	VND	VND	VND		VND	VND	VND	1 mg/kg bw/d
Threshold Limit Value. TWA/8h STEL/15min Type TWA/8h ppm mg/m3 ppm mg/m3 MAK AUS 2	Threshold Limit Value. TWA/8h STEL/15min Type TWA/8h ppm mg/m3 ppm mg/m3 MAK AUS 2	POTASSIUM HYDROXIDE								
MAK AUS 2 INHAL.	MAK AUS 2 INHAL.	Threshold Limit Value.	Country			OTEL /4 Cardin				
MAK AUS 2 INHAL.	MAK AUS 2 INHAL.	туре	Country							
					ppm	mg/m3	ppm			
/LEP BEL 2	VLEP BEL 2			2				INHAL.		
		VLEP	BEL			2				

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TLV	BGR	2						
TLV	CZE	1		2				
TLV	DNK	2						
VLA	ESP			2				
TLV	EST	2						
HTP	FIN			2 (C)				
VLEP	FRA			2				
WEL	GBR			2				
TLV	GRC	2		2				
GVI	HRV			2				
AK	HUN	2		2				
OEL	IRL			2				
NDS	POL	0,5		1				
TLV-ACGIH				2 (C)				
Health - Derived no-effe	Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.			VND	1 mg/m3			VND	1 mg/m3
Skin.							VND	VND
PHOSPHORIC ACID								
Threshold Limit Value.	Country	TWA/8h ma/m3	nnm	STEL/15min	nom			
Threshold Limit Value. Type	Country	mg/m3	ppm	mg/m3	ppm			
Threshold Limit Value. Type MAK			ppm		ppm			
Threshold Limit Value. Type MAK VLEP	Country	mg/m3 1	ppm	mg/m3 2 2	ppm			
Threshold Limit Value. Type MAK VLEP TLV	Country AUS BEL BGR	mg/m3 1 1	ppm	mg/m3 2 2 2	ppm			
Threshold Limit Value. Type MAK VLEP TLV VEL	Country AUS BEL BGR CHE	mg/m3 1 1 1	ppm	mg/m3 2 2 2 2	ppm			
Threshold Limit Value. Type MAK VLEP TLV VEL MAK	Country AUS BEL BGR CHE CHE	mg/m3 1 1 1 1	ppm	mg/m3 2 2 2 2 2 2	ppm			
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV	Country AUS BEL BGR CHE CHE CYP	mg/m3 1 1 1 1 1 1	ppm	mg/m3 2 2 2 2 2 2 2 2 2	ppm			
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV TLV	Country AUS BEL BGR CHE CHE CYP CZE	mg/m3 1 1 1 1 1 1 1 1	ppm	mg/m3 2 2 2 2 2 2	ppm	INHAL.		
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV TLV AGW	Country AUS BEL BGR CHE CHE CYP CZE DEU	mg/m3 1 1 1 1 1 1	ppm	mg/m3 2 2 2 2 2 2 2 2 2 2 2 2	ppm	INHAL. INHAL.		
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV TLV AGW MAK	Country AUS BEL BGR CHE CHE CYP CZE	mg/m3 1 1 1 1 1 1 1 1 2	ppm	mg/m3 2 2 2 2 2 2 2 2 2 2 2 4	ppm	INHAL. INHAL.		
PHOSPHORIC ACID Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV TLV AGW MAK TLV VLA	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU	mg/m3 1 1 1 1 1 1 1 2 2	ppm	mg/m3 2 2 2 2 2 2 2 2 2 2 2 4	ppm			
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV TLV AGW MAK TLV VLA	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DNK	mg/m3 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1	ppm	mg/m3 2 2 2 2 2 2 2 2 2 4 4 4	ppm			
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV AGW MAK TLV	Country AUS BEL BGR CHE CHE CHE CYP CZE DEU DEU DEU DEU DNK ESP	mg/m3 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1	ppm	mg/m3 2 2 2 2 2 2 2 2 2 4 4 4 2 2	ppm			
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV AGW MAK TLV VLA HTP VLEP	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DEU FIN	mg/m3 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1		mg/m3 2 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2 2 2				
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV TLV AGW MAK TLV VLA HTP VLEP WEL	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DIK ESP FIN FRA	mg/m3 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1		mg/m3 2 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2 2 2				
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV AGW MAK TLV VLA HTP VLEP WEL TLV	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DEU DIK ESP FIN FRA GBR	mg/m3 1 1 1 1 1 1 1 1 2 2 1 1 1		mg/m3 2 2 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2 2				
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV AGW MAK TLV VLA HTP VLEP WEL TLV GVI	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DEU FIN FRA GBR GBR	mg/m3 1 1 1 1 1 1 1 2 2 1 1 1 1		mg/m3 2 2 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2 2				
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV TLV AGW MAK TLV VLA HTP VLEP WEL TLV GVI AK	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DEU FIN FRA GBR GRC HRV	mg/m3 1 1 1 1 1 1 1 2 2 1 1 1 1		mg/m3 2 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2				
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV AGW MAK TLV VLA HTP VLEP WEL TLV GVI AK OEL	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DEU DEU FIN FRA GBR GRC HRV HUN	mg/m3 1 1 1 1 1 1 1 1 1 1 1 1 1		mg/m3 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 3 2 2 2 2 2 2 3 2 2 2 2 2 2 2 4 4 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2				
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV AGW MAK TLV VLA HTP VLEP WEL TLV QVI AK OEL TLV	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DEU DEU FIN FRA GBR GBR GRC HRV HUN IRL	mg/m3 1 1 1 1 1 1 1 1 2 2 1 1 1		mg/m3 2 2 2 2 2 2 2 4 4 4 2 2 2 2 3 2 2 3 2 2 2 2 2 2 2 4 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2				
Threshold Limit Value. Type MAK VLEP TLV VEL MAK TLV AGW MAK TLV VLA HTP	Country AUS BEL BGR CHE CHE CYP CZE DEU DEU DEU DEU DEU DEU DEU DEU DEU DE	mg/m3 1 1 1 1 1 1 1 2 2 1 1 1 1		mg/m3 2 2 2 2 2 2 2 4 4 2 2 2 2 2 3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2				

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						Pag	e n. 8/15		
TLV	NOR	1							
NDS	POL	1		2					
NPHV	SVK	1		2					
MAK	SWE	1		3					
ESD	TUR	1		2					
OEL	EU	1		2					
TLV-ACGIH		1		3					
Predicted no-effect concen	tration - PNEC.								
Normal value in fresh water	r			VND					
Normal value in marine wat	ter			VND					
Normal value for fresh wate	er sediment			NPI					
Normal value for marine wa	ater sediment			NPI					
Normal value for water, inte	ermittent release			VND					
Normal value of STP microorganisms			VND						
Normal value for the terrestrial compartment NPI									
Health - Derived no-ef	fect level - DNEL / Effects on consumers.	DMEL			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
				/					

Inhalation.

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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

VND

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

0,73 mg/m3

VND

2,92 mg/m3

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 A 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.

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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.

Appearance	liquid
Colour	various
Odour	mild
Odour threshold.	Not available.
pH.	10
Melting point / freezing point.	< 0°C
Initial boiling point.	100 °C
Boiling range.	Not available.
Flash point.	> 60 °C.
Evaporation rate	Not available.
Flammability (solid, gas)	not applicable
Lower inflammability limit.	not applicable
Upper inflammability limit.	not applicable
Lower explosive limit.	not applicable
Upper explosive limit.	not applicable
Vapour pressure.	$2,3 \text{ kPa} (T = 20^{\circ}\text{C}) \text{ (water)}$
Vapour density	0,8 g/l (dry air 1,27 g/l) (water)
Relative density.	1,000 Kg/l
Solubility	soluble in water
Partition coefficient: n-octanol/water	LogPow -2,3 (ETHANOLAMINE)
Auto-ignition temperature.	not applicable
Decomposition temperature.	not applicable
Viscosity	Not available.
Explosive properties	Product does not present an explosion hazard.
Oxidising properties	Not available.
0.2 Other information	

9.2. Other information.

VOC (Directive 2010/75/EC) :	1,90 %	-	19,00	g/litre.
VOC (volatile carbon) :	0,75 %	-	7,47	g/litre.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

PHOSPHORIC ACID: decomposes at temperatures over 200°C/392°F. POTASSIUM HYDROXIDE: potential for exothermic hazard. May be corrosive to metals.

10.2. Chemical stability.

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

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POTASSIUM HYDROXIDE: stable under recommended storage conditions.

10.3. Possibility of hazardous reactions.

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

PHOSPHORIC ACID: risk of explosion on contact with nitromethane. May react dangerously with alkalis and sodium borohydride. POTASSIUM HYDROXIDE: gives off hydrogen by reaction with metals. Exothermic reaction with strong acids. Reacts violently with water. ETHANOLAMINE: can react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong mineral acids, vinyl acetate, cellulose nitrate.

10.4. Conditions to avoid.

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

POTASSIUM HYDROXIDE: unstable on exposure to air. Freezing. ETHANOLAMINE: avoid exposure to air and sources of heat.

10.5. Incompatible materials.

PHOSPHORIC ACID: Metals, strong alkalis, aldehydes, sulphides and peroxides. POTASSIUM HYDROXIDE: keep away from: heat sources, oxidizing agents, acids, highly flammable materials, halogens, organic materials. Keep away from: lead, aluminium, copper, tin, zinc, bronze. ETHANOLAMINE: iron, strong acids and strong oxidising agents.

10.6. Hazardous decomposition products.

PHOSPHORIC ACID: phosphorus oxide. POTASSIUM HYDROXIDE: absorbs the atmospheric CO2. Hydrogen: reacts with (some) metals and their compounds; release of highly flammable gas. ETHANOLAMINE: nitrogen oxides, carbon oxides.

SECTION 11. Toxicological information.

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 is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible. This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

11.1. Information on toxicological effects.

Data refers to the mix:

ACUTE TOXICITY: No data available SKIN CORROSION/IRRITATION: Causes severe skin burns and eye damage. (section 3.2 of the safety data sheet) SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye damage. (section 3.2 of the safety data sheet) RESPIRATORY OR SKIN SENSITISATION: No data available GERM CELL MUTAGENICITY: No data available

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CARCINOGENICITY: No data available REPRODUCTIVE TOXICITY: No data available STOT-SINGLE EXPOSURE: No data available STOT-REPEATED EXPOSURE: No data availabledata ASPIRATION HAZARD: No data available

Data relating to substances hazardous mixture:

PHOSPHORIC ACID

ACUTE TOXICITY: LD50 (Oral).1530 mg/kg Rat LD50 (Dermal).2740 mg/kg Rabbit LC50 (Inhalation).> 0,85 mg/l/1h Rat

POTASSIUM HYDROXIDE

ACUTE TOXICITY: LD50 (Oral).333 mg/kg Rat, equivalent or similar to (OECD Guideline 425)

ETHANOLAMINE

ACUTE TOXICITY: LD50 (Oral).1515 mg/kg rat, equivalent or similar to (OECD Guideline 401) LD50 (Dermal).2504 mg/kg rabbit, equivalent or similar to (OECD Guideline 402) LC50 (Inhalation).> 0,136 mg/l/4h rat, equivalent or similar to (OECD Guideline 403)

SECTION 12. Ecological information.

12.1. Toxicity.

ETHANOLAMINE	
LC50 - for Fish.	349 mg/l/96h Cyprinus carpio, according to (Directive 92/69/EEC, C.1)
EC50 - for Crustacea.	140 mg/l/48h Daphnia magna, according to (DIN 38412 Part 11)
EC50 - for Algae / Aquatic Plants.	2,1 mg/l/72h Pseudokirchnerella subcapitata, according to (OECD Guideline 201)

12.2. Persistence and degradability.

PHOSPHORIC ACID	
Solubility in water.	> 850000 mg/l
Biodegradability: Information not available.	

POTASSIUM HYDROXIDE Solubility in water. > 10000 mg/l Biodegradability: Information not available.

ETHANOLAMINE Solubility in water. mg/l 1000 - 10000 Rapidly biodegradable.

12.3. Bioaccumulative potential.

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ETHANOLAMINE Partition coefficient: n-octanol/water.

12.4. Mobility in soil.

ETHANOLAMINE Partition coefficient: soil/water. -0,5646

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%.

-2,3

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. Waste transportation may be subject to ADR restrictions.

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.

ADR / RID, IMDG, IATA: 3266

14.2. UN proper shipping name.

ADR / RID:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. MIXTURE
IMDG:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. MIXTURE
IATA:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. MIXTURE

Label: 8

14.3. Transport hazard class(es).

Class: 8



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IMDG:	Class: 8	Label: 8	<u> a</u>	
IATA:	Class: 8	Label: 8		
4.4. Packing	group.		v	
ADR / RID, IN	MDG, IATA: II			
4.5. Environn	nental hazards.			
ADR / RID:	NO			
IMDG:	NO			
IATA:	NO			
4.6. Special p	precautions for user.			
ADR / RID:	HIN - Kemler: 80 Special Provision: -	Limited Quantities: 1 L	Tunnel restriction code: (E)	
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L		
	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855	
IATA:				
IATA:	Pass.:	Maximum quantity: 1 L	Packaging instructions: 851	
	Pass.: Special Instructions:	Maximum quantity: 1 L A3, A803 Annex II of MARPOL73/78 and	Packaging instructions: 851	
	Pass.: Special Instructions: rt in bulk according to A	A3, A803	Packaging instructions: 851	
14.7. Transpo	Pass.: Special Instructions: rt in bulk according to A	A3, A803 Annex II of MARPOL73/78 and	Packaging instructions: 851	
14.7. Transport	Pass.: Special Instructions: rt in bulk according to A t relevant. I 15. Regulatory i	A3, A803 Annex II of MARPOL73/78 and	Packaging instructions: 851	
14.7. Transport	Pass.: Special Instructions: rt in bulk according to A t relevant. I 15. Regulatory i health and environmer	A3, A803 Annex II of MARPOL73/78 and	Packaging instructions: 851	
14.7. Transport Information not SECTION 15.1. Safety, Seveso cated	Pass.: Special Instructions: rt in bulk according to A t relevant. I 15. Regulatory i health and environmer gory.	A3, A803 Annex II of MARPOL73/78 and Information. Intal regulations/legislation spe None.	Packaging instructions: 851	
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14.7. Transport Information not SECTION 15.1. Safety, Seveso catego Restrictions rel Product. Point	Pass.: Special Instructions: rt in bulk according to A t relevant. I 15. Regulatory i health and environmer gory.	A3, A803 Annex II of MARPOL73/78 and Information. Intal regulations/legislation spenning None. 3. Liquid substances pursuant to 3. Liquid substances or mixtur out in Annex I to Regulation (E (a) hazard classes 2.1 to 2.4, 1 categories 1 and 2, 2.15 types (b) hazard classes 3.1 to 3.6, 1 effects other than narcotic effect (c) hazard class 4.1; (d) hazard class 5.1.	Packaging instructions: 851 the IBC Code. ecific for the substance or mixture. Annex XVII to EC Regulation 1907/2006. res fulfilling the criteria for any of the following EC) No 1272/ 2008: 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12 : A to F; 3.7 adverse effects on sexual function and ferm	, 2.13 categories 1 and 2, 2.14
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14.7. Transport Information not SECTION 15.1. Safety, Seveso categoria Restrictions rel Product. Point	Pass.: Special Instructions: rt in bulk according to A t relevant. I 15. Regulatory i health and environmer gory. lating to the product or co	A3, A803 Annex II of MARPOL73/78 and Information. Intal regulations/legislation spenning None. 3. Liquid substances pursuant to 3. Liquid substances or mixtur out in Annex I to Regulation (E (a) hazard classes 2.1 to 2.4, 1 categories 1 and 2, 2.15 types (b) hazard classes 3.1 to 3.6, 1 effects other than narcotic effect (c) hazard class 4.1; (d) hazard class 5.1.	Packaging instructions: 851 the IBC Code. ecific for the substance or mixture. Annex XVII to EC Regulation 1907/2006. res fulfilling the criteria for any of the following EC) No 1272/ 2008: 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12 : A to F; 3.7 adverse effects on sexual function and ferm	, 2.13 categories 1 and 2, 2.14

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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.

Product not intended for uses provided for by Dir. 2004/42/CE.

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:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1		
Acute Tox. 4	Acute toxicity, category 4		
Skin Corr. 1A	Skin corrosion, category 1A		
Skin Corr. 1B	Skin corrosion, category 1B		
Eye Dam. 1	Serious eye damage, category 1		
H290	May be corrosive to metals.		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H332	Harmful if inhaled.		
H314	Causes severe skin burns and eye damage.		
H318	Causes serious eye damage.		

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

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- 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).

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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.

Training for workers:

Worker training should include content, updates and duration depending on the risk profiles assigned to the business sectors they belong.

Classification according to Regulation (EC) Nr. 1272/2008 Skin Corr. 1A, H314

Classification procedure Calculation method