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#### Safety data sheet according to 1907/2006/EC, Article 31

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**SECTION 1:** Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: <u>MAFRASOL 2.0</u>
- **UFI:** 5TY5-708E-Y00K-4FYD
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Life cycle stages PW Widespread use by professional workers
- Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Product category PC35 Washing and cleaning products (including solvent based products)
- Application of the substance / the mixture Exterior vehicle cleaner
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MA-FRA S.p.A. a Socio Unico Via Aquileia, 44/46 20021 Baranzate (MI) ITALIA Tel.+39 023569981
- www.mafra.com
- mafra@mafra.it
- Informing department: info@mafra.it
- -1.4 Emergency telephone number: In case of accident call the emergency number 112

#### **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



- Signal word Danger
  Hazard-determining components of labelling: sodium hydroxide
  Ethoxy Alchol C9-C11
  potassium hydroxide
  Hazard statements
  H314 Causes severe skin burns and eye damage.
  Precautionary statements
- P102Keep out of reach of children.P280Wear protective gloves / eye protection / face protection.

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P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or
	shower].
P305+P351+P338	FIF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	<i>If eye irritation persists: Get medical advice/attention.</i>
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulation
- ? ? Other hazards	

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

- 3.2 Mixtures

- **Description:** Mixture of substances

CAS: 1310-73-2	sodium hydroxide	3-5%
EINECS: 215-185-5	♦ Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	/ -
Reg.nr.: 01-2119457892-27	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5\%$	
2	<i>Skin Corr. 1B; H314: 2 % ≤ C &lt; 5 %</i>	
	<i>Skin Irrit. 2; H315: 0.5 % ≤ C &lt; 2 %</i>	
	<i>Eye Irrit.</i> 2; <i>H319</i> : $0.5 \% \le C < 2 \%$	
CAS: 78330-20-8	Ethoxy Alchol C9-C11	1-<3%
EC number: 616-607-4	🤣 Eye Dam. 1, H318; 🚸 Acute Tox. 4, H302	
CAS: 51981-21-6	glutamic acid, N,N-diacetic acid, tetrasodium salt	1-<3%
EINECS: 257-573-7	♦ Met. Corr.1, H290	
Reg.nr.: 01-2119493601-38		
CAS: 111-76-2	2-butoxyethanol	1-<3%
EINECS: 203-905-0	🗘 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2119475108-36	ATE: LD50 oral: 1,200 mg/Kg	
CAS: 2809-21-4	1-hydroxy ethylidene-1,1diphosphonic acid	1-<3%
EINECS: 220-552-8	Met. Corr.1, H290; Eye Dam. 1, H318;      Acute Tox. 4, H302     Acute Tox. 4, H302	
Reg.nr.: 01-2119510391-53		
CAS: 1310-58-3	potassium hydroxide	1-<3%
EINECS: 215-181-3	🤣 Met. Corr.1, H290; Skin Corr. 1A, H314; 🚸 Acute Tox. 4, H302	
Reg.nr.: 01-2119487136-33	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5 \%$	
	<i>Skin Corr.</i> 1B; H314: $2\% \le C < 5\%$	
	Skin Irrit. 2; H315: $0.5 \% \le C < 2 \%$	
	<i>Eye Irrit.</i> 2; <i>H319</i> : $0.5 \% \le C < 2 \%$	
Regulation (EC) No 648/20	04	
non-ionic surfactants, polyco	urboxylates, phosphonates, anionic surfactants, perfumes	<5%

- Additional information For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

#### -4.1 Description of first aid measures

#### - General information

Instantly remove any clothing soiled by the product. No special measures required.

#### - After inhalation

In case of unconsciousness bring patient into stable side position for transport. Supply fresh air; consult doctor in case of symptoms.

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<ul> <li>- After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. </li> <li>- After eye contact Rinse opened eye for several minutes under running water. Then consult doctor. Use eye protection. </li> <li>- After swallowing Do not induce vomiting; instantly call for medical help. Drink copious amounts of water and provide fresh air. Instantly call for doctor 4.2 Most important symptoms and effects, both acute and delayed Sickness No further relevant information available 4.3 Indication of any immediate medical attention and special treatment needed If swallowed, gastric irrigation Medical supervision for at least 48 hours</li></ul>
SECTION 5: Firefighting measures
<ul> <li>5.1 Extinguishing media</li> <li>Suitable extinguishing agents</li> <li>CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.</li> <li>5.2 Special hazards arising from the substance or mixture</li> <li>Can be released in case of fire</li> <li>Carbon monoxide (CO)</li> <li>5.3 Advice for firefighters</li> <li>Protective equipment:</li> <li>Do not inhale explosion gases or combustion gases.</li> <li>Protection means for respiratory tract</li> <li>Additional information</li> <li>Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.</li> </ul>
SECTION 6: Accidental release measures
<ul> <li>- 6.1 Personal precautions, protective equipment and emergency procedures Protective gloves. (EN 374)</li> <li>Particular danger of slipping on leaked/spilled product. Keep away unauthorized persons Product forms slippery surface when combined with water.</li> <li>- For non-emergency personnel Ensure adequate ventilation Keep away from ignition sources Wear protective clothing.</li> <li>- For emergency responders Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm</li> <li>- 6.2 Environmental precautions: Inform respective authorities in case product reaches water or sewage system. Dilute with much water.</li> <li>- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose of the material collected according to regulations.</li> <li>- 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.</li> </ul>

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See Section 13 for information on disposal.

#### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Take off immediately all contaminated clothing Wash hands during breaks and at the end of the work. Do not eat, drink or smoke while working.
- Information about protection against explosions and fires: Protect from heat.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: Store only in the original container.
- Information about storage in one common storage facility: Do not store together with acids.
- Further information about storage conditions: Keep container tightly sealed.
- Class according to regulation on inflammable liquids: Void
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

-8.1 Control parameters

	of parameters its with limit values that requ	uire monitoring at the workplace:
1310-58-3	potassium hydroxide	
WEL Shor	rt-term value: 2 mg/m³	
111-76-2 2	2-butoxyethanol	
	rt-term value: 246 mg/m³, 50	
	g-term value: 123 mg/m <sup>3</sup> , 25	ppm
	BMGV	
	phosphoric acid	
	rt-term value: 2 mg/m³ g-term value: 1 mg/m³	
	g-lerm value. 1 mg/m	
- DNELs		
	sodium hydroxide	
Inhalative	Local long-term effects	1 mg/m <sup>3</sup> (Industrial Workers)
		1 mg/m <sup>3</sup> (Consumers)
	Local short-term effects	1 mg/m <sup>3</sup> (Industrial Workers)
		1 mg/m <sup>3</sup> (Consumers)
51981-21-	6 glutamic acid, N,N-diaceti	c acid, tetrasodium salt
Oral	Systemic Long-term Effects	1.5 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	15,000 mg/Kg bw/day (Industrial Workers)
		7,500 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	7.3 mg/m³ (Industrial Workers)
		1.8 mg/m <sup>3</sup> (Consumers)
111-76-2 2	2-butoxyethanol	•
Oral	Systemic Long-term Effects	6.3 mg/Kg bw/day (Consumers)
	Systemic short-term effects	26.7 mg/m <sup>3</sup> (Consumers)
Dermal	Systemic long-term effects	125 mg/Kg bw/day (Industrial Workers)
		75 mg/Kg bw/day (Consumers)
	Systemic Short-term Effects	89 mg/Kg bw/day (Industrial Workers)
		89 mg/Kg bw/day (Consumers)
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Inhalative	Local long	g-term effects	(Contd. of pag 67.5 mg/m <sup>3</sup> (Industrial Workers)
		, 35	40.5 mg/m <sup>3</sup> (Consumers)
	Local shor	rt-term effects	246 mg/m <sup>3</sup> (Industrial Workers)
	2000 Shor	t term ejjeetis	$147 \text{ mg/m}^3$ (Consumers)
	Systemic l	ong-term effects	98 mg/m <sup>3</sup> (Industrial Workers)
	Systemic K	ong term ejjeens	$59 \text{ mg/m}^3$ (Consumers)
	Systemic S	Short-term Effects	1,091 mg/m <sup>3</sup> (Industrial Workers)
	Systemic S	mort term Effects	$426 \text{ mg/m}^3$ (Consumers)
2809-21-4	1-hvdroxv	ethylidene-1,1di	
Oral		•	13 mg/Kg bw/day (Consumers)
orui	-	<i>hort-term effects</i>	
	Systemic 5	nori ierm ejjeeis	6.5 mg/m <sup>3</sup> (Consumers)
Dermal	Systemic l	ong-term effects	13 mg/Kg bw/day (Industrial Workers)
	1.1	enzene sulphonio	
05550-14- Oral		-	0.425 mg/Kg bw/day (Consumers)
Dermal	-	ong-term effects	85 mg/Kg bw/day (Industrial Workers)
Dermai	systemic i	ong-lerm ejjecis	42.5 mg/Kg bw/day (Industrial Workers) 42.5 mg/Kg bw/day (Consumers)
Inhalating	Logallong	town offects	
Innaialive	Locai iong	g-term effects	12 mg/m <sup>3</sup> (Industrial Workers)
	G., 1		$3 \text{ mg/m}^3$ (Consumers)
	Systemic lo	ong-term effects	6 mg/m <sup>3</sup> (Industrial Workers)
1010 -0 0			1.5 mg/m <sup>3</sup> (Consumers)
	potassium	-	
Inhalative	Local long	g-term effects	1 mg/m <sup>3</sup> (Industrial Workers)
	~	20	1 mg/m <sup>3</sup> (Consumers)
	Systemic le	ong-term effects	1 mg/m <sup>3</sup> (Industrial Workers)
			1 mg/m <sup>3</sup> (Consumers)
PNECs			
	0		ic acid, tetrasodium salt
PNEC STR	D C	41.2 mg/L (STP)	
Soil		0.5 mg/Kg (Soil)	
Soft Water		9.45 mg/L (Wate	r)
Sea water		0.945 mg/L (Wat	ter)
111-76-2 2	2-butoxyeth	anol	
PNEC STR	D	463 mg/L (STP)	
Soil		2.33 mg/Kg (Soi	1)
Soft Water 8.8 mg/L (Water)		8.8 mg/L (Water)	
Sea water		0.88 mg/L (Wate	r)
Sediment (	(soft water)	34.6 mg/Kg (Soi	1)
Sediment (	(sea water)	3.46 mg/Kg (Soi	1)
Occasiona	l Emission	26.4 mg/L (Wate	r)
2809-21-4	1-hydroxy	ethylidene-1,1di	phosphonic acid
		20 mg/L (STP)	-
PNEC STR		96 mg/Kg (Soil)	
PNEC STI Soil			ter)
Soil		0.136 mg/L (Wai	
Soil Soft Water		0.136 mg/L (Wai 0.0136 mg/L (Wa	
Soil Soft Water Sea water		0.136 mg/L (Wai 0.0136 mg/L (Wa 59 mg/Kg (Soil)	

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Sediment (sea water)	5.9 mg/Kg (Soil)
85536-14-7 Dodecyll	enzene sulphonic acid
PNEC STP	3.43 mg/L (STP)
Soil	35 mg/Kg (Soil)
Soft Water	0.268 mg/L (Water)
Sea water	0.027 mg/L (Water)
Sediment (soft water)	8.1 mg/Kg (Soil)
Sediment (sea water)	6.8 mg/Kg (Soil)
- Ingredients with biol	ogical limit values:
111-76-2 2-butoxyeth	nanol
BMGV 240 mmol/mc	l creatinine
Medium: urine	
Sampling tim	
Parameter: b	utoxyacetic acid

- Additional information: The lists that were valid during the compilation were used as basis.

- -8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Hand protection



Protective gloves. (EN 374)

Alkaline resistant gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0.1$  mm
- Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 15 minutes (Permeation according to EN 16523-1:2015: Level 1).

- Eye/face protection



Tightly sealed safety glasses.

- Body protection: Alkaline resistant protective clothing

- Environmental exposure controls Disposal must be made according to official regulations.

 SECTION 9: Physical and chemical properties

 - 9.1 Information on basic physical and chemical properties

 - General Information

 - Physical state
 Fluid

 - Colour:
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- Odour:	Pleasant
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	100 °C (7732-18-5 water, distilled, conductivity or of simila
61 61 6 6	purity)
Flammability	Not applicable.
Lower and upper explosion limit	11
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable
Self-inflammability:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH at 20 °C	>12
Viscosity:	~12
viscosity. Kinematic viscosity	Not determined.
	Not determined.
dynamic:	
Solubility Watara	Fully missible
Water:	Fully miscible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C	$1.1 \text{ g/cm}^3$
Relative density	Not determined.
Vapour density	Not determined.
- Appearance: - Form: - Important information on protection of health an	Fluid d
environment, and on safety.	
Explosive properties:	Product is not explosive.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases i	
contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

## SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under normal conditions

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- 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Reacts with acids

- 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: Reacts with strong acids

- 10.6 Hazardous decomposition products: No dangerous decomposition products known

#### **SECTION 11: Toxicological information**

-11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity

Oral

- LD/LC50 values that are relevant for classification:

1310-73-2 sodium hydroxide

*Oral LD50 2,000 mg/Kg (Rat)* 

 78330-20-8 Ethoxy Alchol C9-C11

 Oral
 LD50
 300-2,000 mg/Kg (Rat)

51981-21-6 glutamic acid, N,N-diacetic acid, tetrasodium salt

Oral LD50 >2,000 mg/Kg (Rat)

Dermal LD50 >2,000 mg/Kg (Rat)

111-76-2 2-butoxyethanol

LD50	1,200 mg/Kg (ATE)	
		>2,000 mg/Kg (Rabbit)

1,746 mg/Kg (Rat)

Dermal LD50 >2,000 mg/Kg (Rat)

#### 85536-14-7 Dodecylbenzene sulphonic acid

Oral LD50 1,350 mg/Kg (Rat)

Dermal LD50 >2,000 mg/Kg (Rat)

- Skin corrosion/irritation Causes severe skin burns and eye damage.

- Serious eye damage/irritation Causes serious eye damage.

- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

#### **SECTION 12: Ecological information**

- 12.1 Toxicity

- Aquatic toxicity:

1310-73-2 sodium hydroxide

LC50 (96h) 45 mg/L (Fish)

EC50 (48h) 40.4 mg/L (Daphnia)

LC50 (48h) 189 mg/L (Fish)

78330-20-8 Ethoxy Alchol C9-C11

LC50 (96h) >100 mg/L (Fish)

EC50 (48h) >100 mg/L (Daphnia)

EC50 (72h) >100 mg/L (Algae)

51981-21-6 glutamic acid, N,N-diacetic acid, tetrasodium salt

LC50 (96h) >100 mg/L (Fish)

EC50 (48h) >100 mg/L (Daphnia)

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111-76-2 2-	butoxyethanol
LC50 (96h)	1,474 mg/L (Fish)
EC50 (48h)	1,550 mg/L (Daphnia)
EC50 (72h)	911 mg/L (Algae)
2809-21-4 1	-hydroxy ethylidene-1,1diphosphonic acid
LC50 (96h)	195 mg/L (Fish)
EC50 (48h)	527 mg/L (Daphnia)
EC50 (96h)	7.2 mg/L (Algae)
85536-14-7	Dodecylbenzene sulphonic acid
LC50 (96h)	1-10 mg/L (Fish)
EC50 (48h)	1-10 mg/L (Daphnia)
1310-58-3 p	ootassium hydroxide
LC50 (96h)	80 mg/L (Fish)

- 12.2 Persistence and degradability The contained surfactants are easily biodegradable

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- vPvB: Not applicable.

- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects

- Additional ecological information:

- General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

#### **SECTION 13: Disposal considerations**

#### -13.1 Waste treatment methods

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

- 14.1 UN number or ID number - ADR, IMDG, IATA

UN1719

- 14.2 UN proper shipping name - ADR, IMDG, IATA

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, POTASSIUM HYDROXIDE)

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#### **SECTION 15: Regulatory information**

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

- Directive 2012/18/EU

- Named dangerous substances ANNEX I None of the ingredients is listed.
- -National regulations
- Classification according to VbF: Void
- Technical instructions (air):

ClassShare in %NK2.0

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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H290 May be corrosive to metals.	
H302 Harmful if swallowed.	
H314 Causes severe skin burns and	d eve damage
H315 Causes severe skin burns und H315 Causes skin irritation.	<i>» eye uumuge.</i>
H318 Causes serious eye damage.	
H319 Causes serious eye irritation	
H332 Harmful if inhaled.	
Department issuing data specifica	tion sheet: Ma-Fra Laboratories
Contact: lab@mafra.it	
Abbreviations and acronyms:	
	marchandises dangereuses par Route (European Agreement concerning the International Carriage of
Dangerous Goods by Road)	
IMDG: International Maritime Code for Da	
IATA: International Air Transport Associate	
GHS: Globally Harmonised System of Class	
EINECS: European Inventory of Existing C	
ELINCS: European List of Notified Chemic	
CAS: Chemical Abstracts Service (division	
DNEL: Derived No-Effect Level (REACH)	eiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
PNEC: Predicted No-Effect Concentration	(PFACH)
<i>LC50: Lethal concentration, 50 percent</i>	(LACII)
LD50: Lethal dose, 50 percent	
PBT: Persistent. Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumula	ative
Met. Corr.1: Corrosive to metals – Categor	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1A: Skin corrosion/irritation - C	'ategory 1A
Skin Irrit. 2: Skin corrosion/irritation - Cat	
Eye Dam. 1: Serious eye damage/eye irritat	
Eye Irrit. 2: Serious eye damage/eye irritati	on – Category 2