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Safety Data Sheet
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

0030260 Code: Product name TIXO Chemical name and synonym TIXO

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

SU22 - Professional uses SU21 - Consumer uses Sector of use

Product category Uses PC35 - Washing and cleaning products (including solvent-based products) Uses other than those described. Do not use in combination with other products advised against

Description/Usage Paste stain remover for the removal of oily stains on stone materials

1.3. Details of the supplier of the safety data sheet

MARBEC S.R.L. VIA CROCE ROSSA 5/i Full address District and Country 51037 MONTALE (PISTOIA)

ITALIA

Tel. +039 0573/959848

Fax

e-mail address of the competent person

responsible for the Safety Data Sheet becarelli@marbec.it Supplier: info@marbec.it

1.4. Emergency telephone number

For urgent inquiries refer to MARBEC srl

0573959848 h8.30-13 h14-18 o 3357267921

Numero telefonico di Centri Antiveleni attivi 24/24 ore

IRCSS Fondazione Maugeri -Pavia 0039-0382-24444 CAV Ospedali Riuniti -Bergamo 0039-800-883300

CAV Ospedale Niguarda Ca` Granda -

Milano 0039-02-66101029

CAV Ospedale Careggi- Firenze 0039-055-7947819

CAV Policlinico Gemelli -Roma 0039-06-3054343 CAV Policlinico Umberto I -Roma 0039-06 49978000 CAV Ospedale Cardarelli -Napoli 0039-081 5453333

CAV Azienda Ospedaliera Integrata Verona - Verona 800011858

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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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 (EU) Regulation 2020/878. 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:

Causes severe skin burns and eye damage. Skin corrosion, category 1A H314

Serious eye damage, category 1 H318 Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P303+P361+P353

P280

Wear protective gloves/ protective clothing / eye protection / face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Contains: SODIUM HYDROXIDE

Dodecyl benzene sulfonic acid

Ingredients compliant with Regulation (EC) No. 648/2004:

Anionic surfactants <5%

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

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Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

1-METHOXY-2-PROPANOL

CAS 107-98-2 15 ≤ x < 18 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1

INDEX 603-064-00-3

REACH Reg. 01-2119457435-35

Silicic acid, calcium salf

(crystalline)

CAS 1344-95-2 15 ≤ x < 18 Eye Irrit. 2 H319

EC 215-710-8

INDEX -

REACH Reg. 01-2119990740-32

-xxxx

SODIUM HYDROXIDE

CAS 1310-73-2 3 ≤ x < 5 Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-185-5 Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥

2%, Eye Irrit. 2 H319: ≥ 0,5%

INDEX 011-002-00-6

REACH Reg. 01-2119457892-27-

XXXX

dodecyl benzene sulfonic acid

CAS 27176-87-0 1 ≤ x < 3 Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318

EC 246-680-4 LD50 Oral: 890 mg/kg

INDEX -

REACH Reg. 01-2120081398-46-

XXXX

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

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Choose the most appropriate extinguishing equipment for the specific case.
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 The product is neither flammable nor combustible.

5.3. Advice for firefighters

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. 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

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clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU Deutschland Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 España ESP Límites de exposición profesional para agentes químicos en España 2021 FRA ITA Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS Decreto Legislativo 9 Aprile 2008, n.81 France Italia Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à PRT Portugal exposição durante o trabalho a agentes cancerígenos ou mutagénicos GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020) TLV-ACGIH RCP TLV EU ACGIH TLVs and BEIs -

Appendix H

1-METHOXY-2-PRO							
Threshold Limit Val	Country	TWA/8h	TWA/8h STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	370	100	740	200		
MAK	DEU	370	100	740	200		
VLA	ESP	375	100	568	150	SKIN	
VLEP	FRA	188	50	375	100	SKIN	
VLEP	ITA	375	100	568	150	SKIN	
VLE	PRT	375	100	568	150		
WEL	GBR	375	100	560	150	SKIN	
OEL	EU	375	100	568	150	SKIN	
TLV-ACGIH		184	50	368	100		

Health - Derived no-eff	fect level - DNEL / D 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
Oral			VND	3,3 mg/kg bw/d				
Inhalation			VND	43,9 mg/m3	553,5 mg/m3	VND		369 mg/m3
Skin			VND	18,1 mg/kg bw/d		VND		50,6 mg/kg bw/d

	ım salt (crystalline)			
Threshold Limit V	/alue			
Туре	Country	TWA/8h	STEL/15min	Remarks /
				Observations

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	mg/m3	ppm	mg/m3	ppm	
RCP TLV	10				INHAL
RCP TLV	3				RESP

SODIUM HYDROXID Threshold Limit Val							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP			2			
VLEP	FRA	2					
WEL	GBR			2			
TLV-ACGIH				2 (C)			

Health - Derived no-effect level - DNEL / DMEL									
	Effects on				Effects on				
	consumers				workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic	
				systemic		systemic		systemic	
Inhalation			1 mg/m3	1 mg/m3			1 mg/m3	1 mg/m3	

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.

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 III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 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 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.

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 opencircuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard

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EN 138). For a correct choice of respiratory protection device, see standard EN 529.

Value

ENVIRONMENTAL EXPOSURE CONTROLS

Properties

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

Information

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	pasty liquid
Colour	light brown
Odour	characteristic
Melting point / freezing point	Not available
Initial boiling point	Not applicable
Flammability	incombustible
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Elach point	Combustion not

Flash point Combustion not sustained.

Auto-ignition temperature Not available

pH 14

Kinematic viscosity Not available

Solubility partially soluble in water

Partition coefficient: n-octanol/water Not available
Vapour pressure Not available
Density and/or relative density 1,06 kg/l
Relative vapour density Not available
Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Flammable liquids

Sustained combustibility does not sustain combustion

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 16,98 % - 180,00 g/litre

Explosive properties Not explosive Oxidising properties Not oxidant

SECTION 10. Stability and reactivity

10.1. Reactivity

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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

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

SODIUM HYDROXIDE

Avoid exposure to: air, moisture, sources of heat.

10.5. Incompatible materials

1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

SODIUM HYDROXIDE

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

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1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

1-METHOXY-2-PROPANOL

 LD50 (Dermal):
 > 2000 mg/kg Rabbit

 LD50 (Oral):
 4016 mg/kg Ratto

 LC50 (Inhalation vapours):
 > 7000 mg/l/4h Ratto

Silicic acid, calcium salt (crystalline)

LC50 (Inhalation mists/powders): > 4,9 mg/l/4h inalazione ratto

SODIUM HYDROXIDE

LD50 (Dermal): 1350 mg/kg Rat LD50 (Oral): 1350 mg/kg Rat

dodecyl benzenesulfonic acid

LD50 (Oral): 890 mg/kg

SKIN CORROSION / IRRITATION

Corrosive for the skin

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SERIOUS EYE DAMAGE / IRRITATION	
SERIOUS ETE DAMIAGE / IRRITATION	
Causes serious eye damage	
RESPIRATORY OR SKIN SENSITISATION	
NOTE OF THE PROPERTY OF THE PR	
Does not meet the classification criteria for this hazard class	
Respiratory sensitization	
Information not available	
Skin sensitization	
Information not available	
GERM CELL MUTAGENICITY	
Does not meet the classification criteria for this hazard class	
boos not most the diassilloation entena for this nazard class	
CARCINOGENICITY	
Does not meet the classification criteria for this hazard class	
REPRODUCTIVE TOXICITY	
Does not meet the classification criteria for this hazard class	
Adverse effects on sexual function and fertility	
Adverse effects on sexual function and fertility	
Information not available	
Adverse effects on development of the offspring	
The second secon	

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Information not available	
Effects on or via lactation	
Information not available	
STOT - SINGLE EXPOSURE	
Does not meet the classification criteria for this hazard class	
Target organs	
Information not available	
Route of exposure	
Information not available	
STOT - REPEATED EXPOSURE	
Does not meet the classification criteria for this hazard class	
Target organs	
Information not available	
Route of exposure	
Information not available	
ASPIRATION HAZARD	
Does not meet the classification criteria for this hazard class	

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11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

12.1. Toxicity

1-METHOXY-2-PROPANOL

1-METHOXY-2-PROPANOL

LC50 - for Fish > 6800 mg/l/96h leuciscus idus EC50 - for Crustacea 23300 mg/l/48h daphnia magna

dodecyl benzenesulfonic acid

LC50 - for Fish 5 mg/l/48h Leuciscus idus
EC50 - for Algae / Aquatic Plants 5,9 mg/l/24h Daphnia magna

12.2. Persistence and degradability

1-METOXY-2-PROPANOL

Assessment of biodegradability and elimination (H2O): easily biodegradable (according to OECD criteria). Disposal considerations: 90-100% (28 days) (OECD 301E/92/96/EEC, C 4-B) (aerobic, municipal water treatment plant effluent). In water, hydrolytic stability has not been determined but rapid biodegradability has been found (96% degraded in 28 days). OECD 301E tests. Atmospheric vapor photodegraded rapidly (half-life <1 day) Silicic acid, calcium salt (crystalline)

The substance is inorganic therefore it is not subject to biodegradation.

SODIUM HYDROXIDE

Solubility in water > 10000 mg/l

Degradability: information not available

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

dodecyl benzenesulfonic acid

Rapidly degradable

12.3. Bioaccumulative potential

Silicic acid, calcium salt (crystalline)

The substance is inorganic, therefore not subject to accumulation.

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

12.4. Mobility in soil

Silicic acid, calcium salt (crystalline)

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The substance has a low potential for absorption.

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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 or ID number

ADR / RID, IMDG, 3266

IATA:

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



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14.4. Packing group

Ш ADR / RID, IMDG, IATA:

14.5. Environmental hazards

NO ADR / RID: IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 88 Limited Tunnel

Quantities: 5L restriction

code: (E)

Special provision: -

Pass.:

IMDG: EMS: F-A, S-B Limited Quantities: 5L

Maximum Cargo:

Packaging quantity: 60 L instructions:

856

Maximum quantity: 5 L Packaging instructions:

852

Special provision: A3, A803

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

IATA:

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

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

<u>Product</u>

3 - 40 Point

Contained substance

75 Point

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

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Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 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 dangerous to health must be subjected to health surveillance carried out according to the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the worker's health and safety has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been prepared for the following substances contained in the mixture: Sodium hydroxide, 1-Methoxy-2-propanol.

SECTION 16. Other information

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

Flam. Liq. 3 Flammable liquid, category 3

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

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

H226 Flammable liquid and vapour.
H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)

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- 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: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
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- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
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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.

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Provide appointed staff with adequate training on how to use chemical products.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical riazards. Product classification derives from chief a established by the CLP Regulation, Affilex 1, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12. Changes to previous review: The following sections were modified: 01 / 09.