

Safety data sheet

According to reg. (EU) 2015/830

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

1.1. Product identifier.

Code: 0030190
Product name: SANI-KAL FORTE
Chemical name and synonym: SANI-KAL FORTE

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

Sector of use: SU22 – Professional uses SU21 – Consumer uses
Category of products: PC35- Washing and Cleaning Products (including solvent based products)
Intended use: Acid desincrusting cleaner

1.3. Details of the supplier of the safety data sheet.

Name: MARBEC S.R.L.
Full address: VIA CROCE ROSSA 5/i
District and Country: 51037 MONTALE (PISTOIA)
ITALY
tel. +390573/959848
fax. +390573/959385

e-mail address of the competent person.
responsible for the Safety Data Sheet.

info@marbec.it

1.4. Emergency telephone number.

For urgent inquiries refer to.

MARBEC srl
+390573959848 h8.30-13 h14-18 or +393348578502
Telephone number of Poison Centers active 24/24 hours
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

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1
Skin irritation, category 1B

H318
H314

Causes serious eye damage.
Causes severe skin burns and 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:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P310 Immediately call a POISON CENTER/doctor/...
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Contains: Phosphoric acid 75%

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

Phosphors<5%, non ionic surfactants <5%. Perfume.

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%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

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

Identification.**Classification 1272/2008 (CLP).****Phosphoric acid 75%**

CAS. 7664-38-2

 $1 \leq x < 3$ Met. Corr. 1 H290, Acute Tox. 4 H302,
Skin Corr. 1B H314, Eye Dam. 1 H318
LD50 Oral: >300 mg/kg

EC. 231-633-2

INDEX. 015-011-00-6

Reg. no. 01-2119485924-24-005

DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS. 34590-94-8

 $1 \leq x < 3$

Substance with a community workplace exposure limit.

EC. 252-104-2

INDEX. -

Reg. no. 01-2119450011-60-****

Citric Acid Monohydrate

CAS. 5949-29-1

 $1 \leq x < 3$

Eye Irrit. 2 H319

EC. 201-069-1

INDEX. -

Reg. no. 01-2119457026-42-****

PROPAN-2-OL

CAS. 67-63-0

 $1 \leq x < 3$

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

EC. 200-661-7

INDEX. 603-117-00-0

Reg. no. 01-2119457558-25-****

2-[2-hydroxyethyl-[(Z)-octadec-9-enyl]amino]ethanol

CAS. 13127-82-7

 $0,5 \leq x < 1$ Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
Aquatic Acute 1 H400 M=1
STA Oral: 500 mg/kg

EC. 236-062-2

INDEX. -

(Z)-Octadec-9-enylamine, ethoxylated

CAS. 26635-93-8

 $0 \leq x < 0,5$ Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
Aquatic Acute 1 H400 M=1 LD50 Oral: 1587 mg/kg

EC. 500-048-7

INDEX. -

SECTION 4. First aid measures.

4.1. Description of first aid measures.

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

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

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

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

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

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.

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.

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

Provide sufficient ventilation of the place affected by the leak. The disposal of contaminated material must be carried out in accordance with the provisions of 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.

Keep away from heat, sparks and open flames, do not smoke or use matches or lighters. Without adequate ventilation, the vapors can accumulate on the ground and catch fire even at a distance, if triggered, with the risk of backfire. Avoid the accumulation of electrostatic charges. Connect to an earth socket in the case of large packaging during the transfer operations and wear antistatic shoes. Strong agitation and vigorous flow of liquid in piping and equipment can cause the formation and accumulation of electrostatic charges. To avoid the danger of fire and explosion, never use compressed air for handling. Open containers carefully, as they may be under pressure. Do not eat, drink or smoke during use. Avoid the dispersion of the product in the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

12

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

Phosphoric acid 75%**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		Notes / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	1		2		
VLEP	FRA	1	0,2	2	0,5	
WEL	GBR	1		2		
VLEP	ITA	1		2		
VLE	PRT	1		2		
OEL	EU	1		2		

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic systemic 0,1 mg/kg bw/d	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral								
Inhalation			0,36 mg/m3	4,57 mg/m3	2 mg/m3		1 mg/m3	10.7 mg/m3
Skin								VND

DIPROPYLENE GLYCOL MONOMETHYL ETHER**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		Notes / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	FRA	308	50			SKIN.
WEL	GBR	308	50			SKIN.
VLEP	ITA	308	50			SKIN.
VLE	PRT	308	50			SKIN.
OEL	EU	308	50			SKIN.
TLV-ACGIH		606	100	909	150	SKIN.

Citric Acid Monohydrate

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,4	mg/l
Normal value in marine water	0,44	mg/l
Normal value for fresh water sediment	3,46	mg/kg/d
Normal value for marine water sediment	34,6	mg/kg/d
Normal value of STP microorganisms	1000	mg/l
Normal value for the terrestrial compartment	33,1	mg/kg/d

Normal value for the atmosphere

VND

PROPAN-2-OL**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	FRA			980	400
WEL	GBR	999	400	1250	500
TLV-ACGIH		492	200	983	400

Predicted no-effect concentration - PNEC

Normal value in fresh water	140,9	mg/l
Normal value in marine water	140,9	mg/l
Normal value for fresh water sediment	552	mg/kg
Normal value for marine water sediment	552	mg/kg
Normal value for the terrestrial compartment	28	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				26 mg/kg/d				
Inhalation				89 mg/kg				500 mg/m3
Skin				319 mg/kg/d				888 mg/kg/d

(Z)-Octadec-9-enylamine, ethoxylated**Predicted no-effect concentration - PNEC**

Normal value for fresh water sediment	1,692	mg/kg/d
Normal value for marine water sediment	0,1692	mg/kg/d
Normal value of STP microorganisms	1,5	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,214 mg/kg bw/d				
Inhalation				0,754 mg/m3				2,112 mg/m3
Skin				0,214 mg/kg bw/d				0,3 mg/kg bw/d

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.

For the selection of personal protective equipment, if necessary ask your chemical suppliers 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

Use chemical resistant gloves classified according to EN 374: protective gloves against chemicals and micro-organisms.

Suitable material: NBR (nitrile-butadiene rubber) - Butyl rubber (butyl rubber) 0.5 mm,> 8h.

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

RESPIRATORY PROTECTION

Not necessary for normal use.

If the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product is exceeded (eg in unventilated environments, dust or aerosols) use respiratory protection equipped with an anti- acid vapor filter (B-type) or air visor in case of insufficient ventilation (see standard EN 14387).

If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

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

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

ENVIRONMENTAL EXPOSURE CONTROLS.

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

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	colourless
Odour	characteristic
Odour threshold.	Not available.
pH.	2
Melting point / freezing point.	Not applicable.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	>60°C
Evaporation rate	Not available.
Flammability (solid, gas)	not flammable
Lower inflammability limit.	Not applicable.
Upper inflammability limit.	Not applicable.
Lower explosive limit.	Not applicable.
Upper explosive limit.	Not applicable.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,030 Kg/lit
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	not applicable
Oxidising properties	not applicable

9.2. Other information.

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	4,00 % - 41,20 g/litre
Explosive properties	non-explosive
Oxidising properties	non-oxidizing

SECTION 10. Stability and reactivity.

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

10.4. Conditions to avoid

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat. Possibility of explosion.

10.5. Incompatible materials

Information not available

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 toxicological effects.

Metabolism, kinetics, action mechanism and other information

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed effects and chronic effects from short and long term exposures

Information not available

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)

Phosphoric Acid 75%

LD50 (Oral):	> 300 mg/kg rat
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citric acid monohydrate

LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	> 5400 mg/kg rat

PROPAN-2-OL

LD50 (Dermal):	12800 mg/kg Rat
LD50 (Oral):	4710 mg/kg Rat
LC50 (Inhalation vapours):	72,6 mg/l/4h Rat

Polyoxyethylene (5) oleylamine ether

LD50 (Oral):	> 1,26 mg/kg rat (Method: OCDE directive line 401)
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(Z)-Octadec-9-enylamine, ethoxylated

LD50 (Oral):	1587 mg/kg
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SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

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

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

Information not available

Adverse effects on development of the offspring

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

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.

PROPAN-2-OL
LC50 – for Fish

> 100 mg/l/96h leuciscus idus melanotus, static

EC50 - for Crustacea. > 100 mg/l/48h dafnia magna Static test
 EC50 - for Algae / Aquatic > 100 mg/l/72h scenedesmus subspicatus. Static test
 Plants.

Phosphoric Acid 75%
 LC50 – for Fish > 1,3 mg/l/96h Lepomis macrochirus
 EC50 - for Crustacea. > 100 mg/l/48h Daphnia magna
 EC50 - for Algae / Aquatic > 100 mg/l/72h algae
 Plants.

Polyoxyethylene (5)
 oleylamine ethere
 LC50 - for Fish. 0,1 mg/l/96h
 EC50 - for Crustacea. 0,043 mg/l/48h
 EC50 - for Algae / Aquatic 86,7 mg/l/72h
 Plants.

(Z)-Octadec-9-enylamine, ethoxylated
 LC50 – for Fish 0,1 mg/l/96h
 EC50 – for Crustacea 0,043 mg/l/48h
 EC50 - for Algae / Aquatic Plants. 0,0867 mg/l/72h

12.2. Persistence and degradability.

DIPROPYLENE GLYCOL
 MONOMETHYL ETHER
 Solubility in water. 1000 - 10000 mg/l

Rapidly biodegradable.

PROPAN-2-OL

Rapidly biodegradable.

Citric Acid Monohydrate

Rapidly biodegradable.

Phosphoric Acid 75%

Biodegradability: Information not available.

(Z)-Octadec-9-enylamine,
 ethoxylated

Solubility in water 5,9 mg/l

Rapidly biodegradable.

Polyoxyethylene (5)
oleylamine ether
Rapidly biodegradable.

12.3. Bioaccumulative potential.

DIPROPYLENE GLYCOL
MONOMETHYL ETHER

Partition coefficient: n-
octanol/water. 0,0043

PROPAN-2-OL

Partition coefficient: n-
octanol/water. 0,05

(Z)-Octadec-9-enylamine,
ethoxylated

Partition coefficient: n-
octanol/water. 3,4 Log Kow

BCF. 23,4

Polyoxyethylene (5)
oleylamine ether

Partition coefficient: n-
octanol/water. 3,4 Log Kow

BCF. 23,4

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

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

12.6. 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.**

ADR / RID, IMDG, 1760
IATA:

14.2. UN proper shipping name.

ADR / RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(phosphoric acid)
IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(phosphoric acid)
IATA: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(phosphoric acid)

14.3. Transport hazard class(es).

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

**14.4. Packing group.**

ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards.

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user.

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5L	Tunnel restriction code: (E)
	Special Provision: 274		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5L	
IATA:	Cargo:	Maximum	Packaging

quantity: 60L

instructions:

Pass.:

Maximum
quantity: 5L

856

Packaging
instructions:

Special Instructions:

A3, A803

852

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso Category - Directive 2012/18/EC: none

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

Point. 3 - 40

Contained substance

Point 75

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 \geq than 0,1%.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 must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

A chemical safety assessment has been developed for the following substances in the mixture:
Phosphoric acid and citric acid monohydrate.

SECTION 16. Other information.

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

Flam. Liq. 2	Flammable liquid, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
H290	May be corrosive to metals.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level

- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
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 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website
 - ECHA Agency website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 09 / 11 / 12 / 14 / 15 / 16.