

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 (EU) Regulation 2015/830. 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:

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Sydex			••••••••••••••••••••••••••••••••••••••		
STUEX					Dated 29/08/2018
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Skin corrosion, category ⁻ Serious eye damage, cate			H314 H318	Causes severe skin burns a Causes serious eye damag	
2.2. Label elements					
Hazard labelling pursuant to	o EC Regula	ation 1272/2008 (CLP) an	d subsequent amend	ments and supplements.	
Hazard pictograms:					
Signal words:	Danger				
Hazard statements:					
H314 EUH071	Causes se Corrosive	evere skin burns and eye to the respiratory tract.	damage.		
Precautionary statements:					
P260 P280 P303+P361+P353 P305+P351+P338	Wear prot IF ON SK		clothing / eye protection ediately all contamina	on / face protection. ted clothing. Rinse skin with wa	ter [or shower]. present and easy to do. Continue
Contains:	NITRIC A PHOSPH	CID ORIC ACID			
5% or over but less than 15%	phosphate	es			
Preservation agents					
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

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Contains: Identification	x = Conc. %	Classification 1272/2008 (CLP)	
NITRIC ACID			
CAS 7697-37-2	$30 \le x < 50$	Ox. Liq. 2 H272, Skin Corr. 1A H314, Eye Dam. 1 H318 Classification note according to Annex VI to the CLP Re	, EUH071, aculation: B
EC 231-714-2			Julation. D
INDEX 007-004-00-1			
Reg. no. 01-2119487297-23-XXXX			
PHOSPHORIC ACID			
CAS 7664-38-2	0 ≤ x < 10	Skin Corr. 1B H314, Eye Dam. 1 H318, Classification ne	ote according to
EC 231-633-2		Annex VI to the CLP Regulation: B	
INDEX 015-011-00-6			

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.

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 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.

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5.3. Advice for firefighters

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. 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)

Information not available

SECTION 8. Exposure controls/personal protection

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8.1. Control parameters

Regulatory References:

DEU ESP FRA GBR ITA EU	Deutschland España France United Kingdom Italia OEL EU	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte INSHT - Límites de exposición profesional para agentes químicos en España 2017 JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 EH40/2005 Workplace exposure limits Decreto Legislativo 9 Aprile 2008, n.81 Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2018

NITRIC ACID

Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2,6	1			
MAK	DEU		2		2	
VLA	ESP			2,6	1	
VLEP	FRA			2,6	1	
WEL	GBR			2,6	1	
VLEP	ITA			2,6	1	
OEL	EU			2,6	1	
TLV-ACGIH		5,2	2	10,3	4	

PHOSPHORIC ACID

Threshold Limit Val Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	2		4		INHAL	
MAK	DEU	2		4		INHAL	
VLA	ESP	1		2			
VLEP	FRA	1	0,2	2	0,5		
WEL	GBR	1		2			
VLEP	ITA	1		2			
OEL	EU	1		2			
TLV-ACGIH		1		3			

Legend:

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

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.



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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 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

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 B 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 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	straw yellow
Odour	pungent
Odour threshold	Not available
рН	1,1
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available



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Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	very soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not applicable
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

NITRIC ACID

Decomposes at 84°C/183°F.Possibility of self-ignition.

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.

10.2. Chemical stability

Information not available

10.3. Possibility of hazardous reactions

The product may react violently with water.

PHOSPHORIC ACID

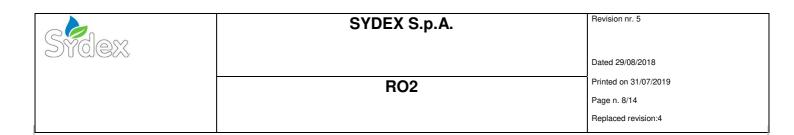
Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

10.4. Conditions to avoid

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

NITRIC ACID

Avoid exposure to: heat, light.



10.5. Incompatible materials

NITRIC ACID

Incompatible with: flammable substances, reducing substances, alcohol, metals, basic substances, acetone, acetic acid, acetic anhydride. Incompatible materials: plastic materials.

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

10.6. Hazardous decomposition products

NITRIC ACID

May develop: nitric oxide.

PHOSPHORIC ACID

May develop: phosphoryl 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.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects



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Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

Corrosive to the respiratory tract.

NITRIC ACID

LC50 (Inhalation) 67 ppm/4h Rat

PHOSPHORIC ACID

LD50 (Oral) 1530 mg/kg Rat

LD50 (Dermal) 2740 mg/kg Rabbit

LC50 (Inhalation) > 0,85 mg/l/1h Rat

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

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

STOT - SINGLE EXPOSURE



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Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

> 850000 mg/l

< 3

12.1. Toxicity

Information not available

12.2. Persistence and degradability

NITRIC ACID	
Solubility in water	> 1000000 mg/l
Degradability: information not available	
PHOSPHORIC ACID	

Solubility in water Degradability: information not available

12.3. Bioaccumulative potential

NITRIC ACID	
Partition coeff	icient: n-octanol/water
12.4. Mobility i	n 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. Other adverse effects

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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: COR	ROSIVE LIQUID, N.O.S.	(NITRIC ACID; PHC	SPHORIC ACID)
IMDO	a: COR	ROSIVE LIQUID, N.O.S.	(NITRIC ACID; PHC	SPHORIC ACID)
ΙΑΤΑ	: COR	ROSIVE LIQUID, N.O.S.	(NITRIC ACID; PHC	SPHORIC ACID)

14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8	<
IMDG:	Class: 8	Label: 8	<
ΙΑΤΑ:	Class: 8	Label: 8	



14.4. Packing group

ADR / RID, IMDG, I IATA:

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

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14.6. Special precautions for	ruser			
ADR / RID:	HIN - Kemler: 88	Limited Quantities: -	Tunnel restriction code: (E)	
	Special Provision: -			
IMDG:	EMS: F-A, S-B	Limited Quantities: -		
IATA:	Cargo:	Maximum quantity: 2,5	Packaging instructions: 854	
	Pass.:	L Maximum quantity: 0,5	Packaging instructions:	
	Special Instructions:	L A3, A803	850	

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

nt

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

3

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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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.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

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:

Ox. Liq. 2	Oxidising liquid, category 2	
Ox. Liq. 3	Oxidising liquid, category 3	
Skin Corr. 1A	Skin corrosion, category 1A	
Skin Corr. 1B	Skin corrosion, category 1B	
Skin Corr. 1	Skin corrosion, category 1	
Eye Dam. 1	Serious eye damage, category 1	
H272	May intensify fire; oxidiser.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
EUH071	Corrosive to the respiratory tract.	

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

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WGK: Water hazard classes (Germa	ccumulative as for REACH Regulation		
GENERAL BIBLIOGRAPHY . Regulation (EC) 1907/2006 (REAC 2. Regulation (EC) 1272/2008 (CLP) of 3. Regulation (EU) 790/2009 (I Atp. C 4. Regulation (EU) 2015/830 of the Eu 5. Regulation (EU) 286/2011 (II Atp. C 5. Regulation (EU) 618/2012 (III Atp. C 7. Regulation (EU) 944/2013 (IV Atp. 8. Regulation (EU) 944/2013 (V Atp. C 9. Regulation (EU) 904/2013 (V Atp. C 9. Regulation (EU) 2015/1221 (VII Atp. 1. Regulation (EU) 2016/918 (VIII Atp. 2. Regulation (EU) 2016/918 (VIII Atp. 3. Regulation (EU) 2016/1179 (IX Atp. 3. Regulation (EU) 2017/776 (X Atp.	of the European Parliament LP) of the European Parliament JLP) of the European Parliament CLP) of the European Parliament CLP) of the European Parliament CLP) of the European Parliament CLP) of the European Parliament tp. CLP) of the European Parliament p. CLP) of the European Parliament p. CLP) of the European Parliament p. CLP)		
Handling Chemical Safety INRS - Fiche Toxicologique (toxicolo	ocial sheet)		
Patty - Industrial Hygiene and Toxico	blogy		
N.I. Sax - Dangerous properties of Ir IFA GESTIS website	וטעגוואו ואאנפוואוג-1, ואאא בטונוטח		
- ECHA 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 aws 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 / 03 / 09.			