	NANOPHOS S.A.			
SurfaPaint F	Printed on 25/05/2021			
ounai ant i	Floor Epoxy Enamel Part A	Page n. 1/15		
	Safety Data Sheet According to Annex II to REACH - Regulation 2015/830			
SECTION 1. Identification of the	e substance/mixture and of the compan	y/undertaking		
I.1. Product identifier				
Code:	NanoPhos_GA_12112018-004			
Product name	SurfaPaint Floor Epoxy Enamel Part A			
1.2. Relevant identified uses of the substant         Intended use       Epoxy Ename	nce or mixture and uses advised against el - A component			
1.3. Details of the supplier of the safety dat				
Name Full address	NANOPHOS S.A. Technological & Cultural Park			
District and Country	19 500 Lavrio (Greece) Greece			
	Tel. +30 22920 69312			
	Fax +30 22920 69303			
e-mail address of the competent person				
e-mail address of the competent person responsible for the Safety Data Sheet Product distribution by:	iarabatz@NanoPhos.com Ioannis Arabatzis			

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: Flammable liguid, category 3	H226	Flammable liquid and vapour.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

# 2.2. Label elements

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

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Hazard pictograms:		
$\wedge$	$\land \land$	
< 🦄 > <		
	$\checkmark$ $\checkmark$	
Signal words:	Dapger	
Signal words.	Danger	
zard statements:		
Laru statements.		
H226 H318	Flammable liquid and vapour. Causes serious eye damage.	
H315	Causes serious eye damage. Causes skin irritation.	
H317	May cause an allergic skin reaction.	
ecautionary statements		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition s	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove conta rinsing.	ct lenses, if present and easy to do. Continue
P280	Wear protective gloves/ protective clothing / eye protection / face protection.	
P310 P370+P378	Immediately call a POISON CENTER / doctor. In case of fire: use dry powder or Carbon Dioxide (CO <sub>2</sub> ) fire extinguisher to o	ovtinguish
P103	Read label before use.	extinguish.
P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
Contains:	BUTANOL	
	Phenol, 4,4-(1-methylethylidene) bis-polymer with 2,2-[1-methylethylidene) I (oxirane)	bis (4,1-phenylene oxymethylene)] bis
. Other hazards		

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

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

# 3.1. Substances

Information not relevant

# 3.2. Mixtures

Contains:

Identification

x = Conc. %

Classification 1272/2008 (CLP)

Phenol, 4,4-(1-methylethylidene) bis-polymer with 2,2-[1methylethylidene) bis (4,1phenylene oxymethylene)] bis (oxirane)

Surfal	Revision nr. 1 Dated 25/05/2021 Printed on 25/05/2021 Page n. 3/15		
CAS 25036-25-3 EC INDEX -	10 < x < 30	Skin Sens. 1 H317	
XYLENE (MIXTURE OF ISOMERS) CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00-9	10 < x < 30	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H Classification note according to Annex VI to the CLP F	
BUTANOL CAS 71-36-3 EC 200-751-6 INDEX 603-004-00-6	3 < x < 5	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H3 STOT SE 3 H335, STOT SE 3 H336	18, Skin Irrit. 2 H315,
1-METHOXY-2-PROPANOL CAS 107-98-2 EC 203-539-1 INDEX 603-064-00-3	0 < x < 5	Flam. Liq. 3 H226, STOT SE 3 H336	

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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

# 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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

# 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. 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 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.

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### 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
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
EU	OEL EU	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

# XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100		
TLV	GRC	435	100	650	150		
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		

BUTANOL							
Threshold Limit Valu	e						
Туре	Country	TWA/8h		STEL/15min	1		
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA			150	50		
WEL	GBR			154	50	SKIN	
TLV	GRC	300	100	300	100		
TLV-ACGIH		61	20				

# 1-METHOXY-2-PROPANOL

Threshold Limit Valu	le						
Туре	Country	TWA/8h	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	188	50	375	10	SKIN	
WEL	GBR	375	100	560	150	SKIN	
TLV	GRC	360	100	1080	300		
OEL	EU	375	100	568	150	SKIN	
TLV-ACGIH		184	50	368	100		

Legend:

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

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# 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 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

# 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 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 Colour Odour Odour threshold pH Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation rate Flammability (solid, gas) Lower inflammability limit Upper inflammability limit Lower explosive limit Upper explosive limit Vapour pressure Vapour density	liquid as showed in color folder solvent Not available Not available Not available Not available 23 < T < 60 °C Not available Not available
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### Relative density Solubility

Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties Not available Not available

# 9.2. Other information

Information not available

# **SECTION 10. Stability and reactivity**

# 10.1. Reactivity

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

# BUTANOL

Attacks various types of plastic materials.

# 1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

# 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.

# XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

# BUTANOL

Reacts violently developing heat on contact with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures with: air.

1-METHOXY-2-PROPANOL

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

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### 10.4. Conditions to avoid

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

BUTANOL

Avoid exposure to: sources of heat, naked flames.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

# 10.5. Incompatible materials

1-METHOXY-2-PROPANOL

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

### 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**

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

XYLENE (MIXTURE OF ISOMERS)

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

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

XYLENE (MIXTURE OF ISOMERS)

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Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### 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

# XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

# BUTANOL

LD50 (Oral) 790 mg/kg Rat

LD50 (Dermal) 3400 mg/kg Rabbit

LC50 (Inhalation) 8000 ppm/4h Rat

1-METHOXY-2-PROPANOL

LD50 (Oral) 5300 mg/kg Rat

LD50 (Dermal) 13000 mg/kg Rabbit

LC50 (Inhalation) 54,6 mg/l/4h Rat

### **SKIN CORROSION / IRRITATION**

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causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye damage	
RESPIRATORY OR SKIN SENSITISATION	
Sensitising for the skin	
GERM CELL MUTAGENICITY	
Does not meet the classification criteria for this hazard class	
CARCINOGENICITY	
Does not meet the classification criteria for this hazard class	
XYLENE (MIXTURE OF ISOMERS)	
Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Ca The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the o	ncer (IARC). carcinogenic potential".
REPRODUCTIVE TOXICITY	
Does not meet the classification criteria for this hazard class	
STOT - SINGLE EXPOSURE	
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 soil or vegetation.	he product reach waterways or contamina

# 12.1. Toxicity

Information not available

# 12.2. Persistence and degradability

# XYLENE (MIXTURE OF ISOMERS) Solubility in water

100 - 1000 mg/l

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Degradability: information not available		
BUTANOL		
Solubility in water	1000 - 10000 mg/l	
Rapidly degradable		
1-METHOXY-2-PROPANOL		
Solubility in water	1000 - 10000 mg/l	
Rapidly degradable		
12.3. Bioaccumulative potential		
XYLENE (MIXTURE OF ISOMERS)		
Partition coefficient: n-octanol/water	3,12	
BCF	25,9	
BUTANOL		
Partition coefficient: n-octanol/water	1	
BCF	3,16	
1-METHOXY-2-PROPANOL		
Partition coefficient: n-octanol/water	< 1	
12.4. Mobility in soil		
XYLENE (MIXTURE OF ISOMERS)		
Partition coefficient: soil/water	2,73	
BUTANOL		
Partition coefficient: soil/water	0,388	

# 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

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.

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# **SECTION 14. Transport information**

# 14.1. UN number

ADR / RID, IMDG, 1263 IATA:

# 14.2. UN proper shipping name

ADR / RID:	PAINT
IMDG:	PAINT
IATA:	PAINT

# 14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3



### 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: 30 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	

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

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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: P5c

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

Product Point

3 - 40

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:

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

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:

Flam. Liq. 3	Flammable liquid, category 3	
Acute Tox. 4	Acute toxicity, category 4	
Eye Dam. 1	Serious eye damage, category 1	
Skin Irrit. 2	Skin irritation, category 2	

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STOT SE 3	Specific target organ toxicity - single exposure, category 3	
Skin Sens. 1	Skin sensitization, category 1	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H318	Causes serious eye damage.	
H315	Causes skin irritation.	
H335	May cause respiratory irritation.	
H317	May cause an allergic skin reaction.	
H336	May cause drowsiness or dizziness.	
IATA DGR: Internat IC50: Immobilizatio IMDG: International I INDEX NUMBER: I IC50: Lethal Conce LD50: Lethal Conce LD50: Lethal Conce D50: Lethal Conce D50: Lethal Conce PEC: Predicted exp PNEC: Cregulation con TLV: Threshold Lim TLV CEILING: Con TWA STEL: Short-t TWA: Time-weighte VOC: Volatile orgar vPvB: Very Persiste	Effect Level Schedule nonized System of classification and labeling of chemicals tional Air Transport Association Dangerous Goods Regulation n Concentration 50% I Maritime Code for dangerous goods Maritime Organization dentifier in Annex VI of CLP entration 50% 50% Exposure Level accumulative and toxic as REACH Regulation <i>vi</i> ronmental Concentration osure level o effect concentration ation 1907/2006 ncerning the international transport of dangerous goods by train nit Value centration that should not be exceeded during any time of occupational exposure. term exposure limit ed average exposure limit	
ENERAL BIBLIOG	RAPHY 907/2006 (REACH) of the European Parliament	

Patty - Industrial Hygiene and Toxicology
 N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

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- IFA GESTIS website

- 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 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.

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SECTION 1. Identification of the	substance/mixture and of the compan	y/undertaking
1.1. Product identifier		
Code: Product name	NanoPhos_GP_250521-5 SurfaPaint Floor Epoxy Enamel Part B	
<b>1.3. Details of the supplier of the safety data</b> Name Full address District and Country	NANOPHOS S.A. Technological & Cultural Park 19 500 Lavrio (Greece)	
	Greece Tel. +30 22920 69312	
	Fax +30 22920 69303	
e-mail address of the competent person		
responsible for the Safety Data Sheet Product distribution by:	iarabatz@NanoPhos.com Ioannis Arabatzis	
1.4. Emergency telephone number For urgent inquiries refer to	+30 22920 69312	
SECTION 2. Hazards identificati	on	
. 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:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.
category 2		

# 2.2. Label elements

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

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Hazard pictograms:			¥2	
Signal words:	Danger			
zard statements:				
H226		liquid and vapou		
H318 H315	Causes ser Causes ski	ious eye damage	ð.	
H317	May cause	an allergic skin re	eaction.	
H411	Toxic to aq	uatic life with long	g lasting effects.	
ecautionary statements	:			
P210 P305+P351+P338			urfaces, sparks, open flames and other ignition v with water for several minutes. Remove cor	n sources. No smoking. ntact lenses, if present and easy to do. Continue
	rinsing.		-	
P280 P310	Wear prote	ctive gloves/ prot v call a POISON (	ective clothing / eye protection / face protection CENTER / doctor.	on.
P370+P378	In case of f	ire: use dry powd	er or Carbon Dioxide (CO <sub>2</sub> ) fire extinguisher t	to extinguish.
P273	Avoid relea	se to the environ	ment.	
Contains:	Fatty acids, C18-unsatd., dimers, polymers with triethylenetetramine 3,6-Diazaoctaneethylenediamine			
3. Other hazards				
n the basis of available of	data, the produc	ct does not contai	n any PBT or vPvB in percentage greater tha	ın 0,1%.
SECTION 3. Con	nposition/	information	on ingredients	
. Substances				
ormation not relevant				
3.2. Mixtures				
ntains:				
Identification		x = Conc. %	Classification 1272/2008 (CLP)	
	enetetramine			
Fatty acids, C18-unsa olymers with triethyle CAS 103758-99-2	enetetramine	50 < x < 70	Eye Dam. 1 H318, Skin Irrit. 2 H315, Skir H411	n Sens. 1B H317, Aquatic Chronic 2
olymers with triethyle CAS 103758-99-2 EC	enetetramine	50 < x < 70	Eye Dam. 1 H318, Skin Irrit. 2 H315, Skir H411	n Sens. 1B H317, Aquatic Chronic 2
olymers with triethyle	enetetramine	50 < x < 70		n Sens. 1B H317, Aquatic Chronic 2
olymers with triethyle CAS 103758-99-2 EC	enetetramine	50 < x < 70		n Sens. 1B H317, Aquatic Chronic 2

	NANOF	PHOS S.A.	Revision nr. 2 Dated 25/05/2021
Si	IrfaPaint Floor F	poxy Enamel Part B	Printed on 25/05/2021
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XYLENE (MIXTURE OF ISO	MERS)		
CAS 1330-20-7	10 < x < 30	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute To Classification note according to Annex VI to the	
EC 215-535-7		Classification hole according to Annex VI to the	CLF Regulation. C
INDEX 601-022-00-9			
ETHYLBENZENE			
CAS 100-41-4	5 < x < 10	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox	. 1 H304, STOT RE 2 H373
EC 202-849-4			
INDEX 601-023-00-4			
3,6-Diazaoctaneethylenedia	mine		
CAS 112-24-3	1 < x < 3	Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Da H317, Aquatic Chronic 3 H412	am. 1 H318, Skin Sens. 1
EC 203-950-6			
INDEX 612-059-00-5			

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

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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during 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 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.

# 7.3. Specific end use(s)

Information not available

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# 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
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
EU	OEL EU	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

# XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min	I		
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100		
TLV	GRC	435	100	650	150		
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		

### ETHYLBENZENE

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	88,4	20	442	100	SKIN	
WEL	GBR	441	100	552	125	SKIN	
TLV	GRC	435	100	545	125		
OEL	EU	442	100	884	200	SKIN	
TLV-ACGIH		87	20				

### 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. 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.

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### 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### 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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (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 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.

°C

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance Colour Odour Odour threshold pH Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation rate Flammability (solid, gas) Lower inflammability limit Upper inflammability limit Lower explosive limit Upper explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties	Not available Not available Not available Not available Not available Not available $> 35 ^{\circ}C$ Not available 23 < T < 60 Not available Not available
Decomposition temperature	Not available
Viscosity	Not available
,	Not available
Oxidising properties	Not available

# 9.2. Other information

Information not available

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# **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.

### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

### ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

# 10.4. Conditions to avoid

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

### 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.

### ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

# **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

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Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

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

ETHYLBENZENE

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

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

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

# XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

# ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

# ETHYLBENZENE

LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) 15354 mg/kg Rabbit

LC50 (Inhalation) 17,2 mg/l/4h Rat

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KIN CORROSION / IRRITATION	
auses skin irritation	
ERIOUS EYE DAMAGE / IRRITATION	
auses serious eye damage	
ESPIRATORY OR SKIN SENSITISATION	
censitising for the skin	
ERM CELL MUTAGENICITY	
oes not meet the classification criteria for this hazard class	
CARCINOGENICITY	

Does not meet the classification criteria for this hazard class

# XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

# ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

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

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# **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.4	1. Toxicity	
Info	rmation not available	
12.2	2. Persistence and degradability	
>	YLENE (MIXTURE OF ISOMERS)	
5	Solubility in water	100 - 1000 mg/l
D	egradability: information not available	
E	ETHYLBENZENE	
5	Solubility in water	1000 - 10000 mg/l
R	apidly degradable	
12.3	3. Bioaccumulative potential	
>	KYLENE (MIXTURE OF ISOMERS)	
F	Partition coefficient: n-octanol/water	3,12
E	BCF	25,9
E	ETHYLBENZENE	
F	Partition coefficient: n-octanol/water	3,6
12.4	4. Mobility in soil	
>	KYLENE (MIXTURE OF ISOMERS)	
F	Partition coefficient: soil/water	2,73
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

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.

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# SECTION 14. Transport information

# 14.1. UN number

ADR / RID, IMDG, 1263 IATA:

# 14.2. UN proper shipping name

ADR / RID:	PAINT RELATED MATERIAL
IMDG:	PAINT RELATED MATERIAL (Fatty acids, C18-unsatd., dimers, polymers with triethylenetetramine)
IATA:	PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3	
IMDG:	Class: 3	Label: 3	ě
IATA:	Class: 3	Label: 3	

# 14.4. Packing group

ADR / RID, IMDG, III IATA:

# 14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

# 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355

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	A3, A72, A192
4.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
nformation not relevant	
SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or n	nixture
Seveso Category - Directive 2012/18/EC: P5c-E2	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation	<u>1907/2006</u>
Product Point 3 - 40	
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:	
None	
Substances subject to the Rotterdam Convention:	
None	
Substances subject to the Stockholm Convention:	
None	
Healthcare controls	
Vorkers exposed to this chemical agent must not undergo health checks, provided that available risk vorkers' health and safety are modest and that the 98/24/EC directive is respected.	-assessment data prove that the risks related to the
15.2. Chemical safety assessment	

No chemical safety assessment has been processed for the mixture and the substances it contains.

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# **SECTION 16. Other information**

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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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).		
<ul> <li>Regulation (EC) 1907/2006 (REACH) of the European Parliament</li> <li>Regulation (EC) 1272/2008 (CLP) of the European Parliament</li> <li>Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 2015/830 of the European Parliament</li> <li>Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 86/2012 (III Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 905/2014 (VI Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 2016/1129 (IX Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 2016/1179 (IX Atp. CLP)</li> <li>Regulation (EU) 2016/1179 (IX Atp. CLP)</li> <li>Regulation (EU) 2017/776 (X Atp. CLP)</li> <li>The Merck Index 10th Edition</li> <li>Handling Chemical Safety</li> <li>INRS - Fiche Toxicologique (toxicological sheet)</li> <li>Patty - Industrial Hygiene and Toxicology</li> <li>N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition</li> <li>IFA GESTIS website</li> <li>ECHA website</li> <li>Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy lote for users:</li> <li>he information contained in the present sheet are based on our own knowledge on the date of the last or oroughness of provided information according to each specific used the product.</li> <li>his document must not be regarded as a guarantee on any specific product property.</li> <li>he use of this product is not subject to our direct control; therefore, users must, under their own responsibil two and regulations. The produce ris relieved from any liability arising from improper uses.</li> &lt;</ul>		
ovide appointed staff with adequate training on how to use chemical products. nanges to previous review: ne following sections were modified: / 02.		