	Ti.Pi.Ci. S.a.s.	Revision nr. 7
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	Safety Data Sheet	
According to	o Annex II to REACH - Regulation 2020/878 and to Anney	x II to UK REACH
SECTION 1. Identification of t	he substance/mixture and of the compa	any/undertaking
1.1. Product identifier Code:	160377-	
Product name	HYDROGUARD Novolac	
	ance or mixture and uses advised against "A" for two components water based paint.	
<b>1.3. Details of the supplier of the safety d</b> Name Full address District and Country	ata sheet Ti.Pi.Ci. S.a.s. Via Val Lerone, 21 16011 Arenzano (GE)	
	Italy	
	Tel. +39 010 9111368 Fax +39 010 9134188	
e-mail address of the competent person	1 ax . 55 010 5154166	
responsible for the Safety Data Sheet	laboris@tipici.net	
1.4. Emergency telephone number		
1.4. Emergency telephone number For urgent inquiries refer to	Centro Antiveleni di Bergamo +3980088330 Bergamo) Centro Antiveleni di Firenze +39055/79478 Centro Antiveleni di Foggia +39800183459 Centro Antiveleni di Milano +3902/6610102 Milano)	(Az. Osp. Univ. Foggia - Foggia)
	Bergamo) Centro Antiveleni di Firenze +39055/79478 <sup>,</sup> Centro Antiveleni di Foggia +39800183459 Centro Antiveleni di Milano +3902/6610102	19 (CAV Ospedale Careggi - Firenze) (Az. Osp. Univ. Foggia - Foggia) 19 (CAO Ospedale Niguarda Cà Granda - 3 (CAV Ospedale Cardarelli - Napoli) (CAV IRCCS Fondazione Maugeri - Pavia) (CAV Policlinico Gemelli - Roma) 0 (CAV Policlinico Umberto I - Roma)

## **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 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:	
Eye irritation, category 2	H319
Skin sensitization, category 1	H317
Hazardous to the aquatic environment, chronic toxicity,	H411
category 2	

Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

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.2. Label elements			
.2. Laber elements			
lazard labelling pursu	ant to EC Regulation 1272/2008 (CLP) and s	ubsequent amendments and supplem	nents.
Hazard pictograms:			
	<b>^</b>		
	SK		
$\langle \cdot \rangle$			
$\sim$	$\checkmark$		
	•		
Signal words:	Warning		
lazard statements:			
H319 H317	Causes serious eye irritation. May cause an allergic skin reaction.		
H411	Toxic to aquatic life with long lasting ef	fects.	
Precautionary stateme	nts:		
P280	Wear protective gloves / eye protectior	n / face protection.	
P273 P391	Avoid release to the environment. Collect spillage.		
P261	Avoid breathing dust / fume / gas / mis		
P333+P313 P337+P313	If skin irritation or rash occurs: Get means If eye irritation persists: Get medical ac		
Contains:	2,2-bis- [4- (2,3-epoxypropoxy) phenyl]	-propane	
contains.	Oxiran, mono[(C12-14-alkyloxy)methyl	Juenvs.	
/OC (Directive 2004/4			
	<u>2/EC):</u>		
/ <u>OC (Directive 2004/4</u> wo - pack performan	2/EC) : ce coatings.	82.00	
<u>′OC (Directive 2004/4</u> <sup>•</sup> wo - pack performan VOC given in g/litre (	<u>2/EC):</u>	83,98	
<u>/OC (Directive 2004/4</u> wo - pack performan VOC given in g/litre ( Limit value:	2/EC) : ce coatings.	140,00	
<u>′OC (Directive 2004/4</u> ˈwo - pack performan VOC given in g/litre (	2/EC) : ce coatings.	140,00	YDROGUARD Novolac
<u>'OC (Directive 2004/4</u> wo - pack performan VOC given in g/litre Limit value: - Catalysed with :	2/EC) : ce coatings.	140,00 10,00 % CAT. per H	YDROGUARD Novolac

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

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

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

3.2. Mixtures

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Contains:

TRIZINC BIS (ORTHOPHOSPHATE) INDEX 030-011-00-6 $8 \le x < 9$ Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1EC 231-944-3CAS 7779-90-02,2-bis-[4-(2,3-epoxypropoxy) phenyl]-propane INDEX 603-073-00-2 $5 \le x < 6$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411EC 216-823-5CAS 1675-54-32-(propyloxy)ethanolH411INDEX 603-095-00-2 $5 \le x < 6$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Eye Irrit. 2 H319EC 220-548-6STA Dermal: 1100 mg/kgCAS 2807-30-9QUARTZINDEX - $0,5 \le x < 1$ STOT RE 2 H373EC 238-878-4STOT RE 2 H373	Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
CAS       7779-90-0         2,2-bis-[4-(2,3-epoxypropoxy)         phenyl] -propane         INDEX       603-073-00-2 $5 \le x < 6$ Eye Irrit.       2 H319, Skin Irrit.       2 H315, Skin Sens.       1 H317, Aquatic Chronic 2         EC       216-823-5       H411       H411         CAS       1675-54-3       H411         2-(propyloxy)ethanol       INDEX       Flam. Liq.       3 H226, Acute Tox.       4 H312, Eye Irrit.       2 H319         EC       220-548-6       STA Dermal:       1100 mg/kg         CAS       2807-30-9       UARTZ       NDEX       0,5 ≤ x < 1       STOT RE 2 H373         EC       238-878-4       STOT RE 2 H373       EC       238-878-4	(ORTHOPHOSPHATE)	8≤x< 9	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
2,2-bis- [4- (2,3-epoxypropoxy)         phenyl] -propane         INDEX 603-073-00-2 $5 \le x < 6$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2         H411         EC 216-823-5         CAS 1675-54-3         2-(propyloxy)ethanol         INDEX 603-095-00-2 $5 \le x < 6$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Eye Irrit. 2 H319         EC 220-548-6       STA Dermal: 1100 mg/kg         CAS 2807-30-9       QUARTZ         INDEX - $0,5 \le x < 1$ STOT RE 2 H373	EC 231-944-3		
phenyl] -propane       Index for the construction of the construc	CAS 7779-90-0		
EC 216-823-5       CAS 1675-54-3 <b>2-(propyloxy)ethanol</b> INDEX 603-095-00-2 $5 \le x < 6$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Eye Irrit. 2 H319         EC 220-548-6       STA Dermal: 1100 mg/kg         CAS 2807-30-9       QUARTZ         INDEX - $0,5 \le x < 1$ STOT RE 2 H373         EC 238-878-4       STOT RE 2 H373	phenyl] -propane	5≤x< 6	
2-(propyloxy)ethanol         INDEX 603-095-00-2 $5 \le x < 6$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Eye Irrit. 2 H319         EC 220-548-6       STA Dermal: 1100 mg/kg         CAS 2807-30-9       QUARTZ         INDEX - $0,5 \le x < 1$ STOT RE 2 H373         EC 238-878-4       STOT RE 2 H373	EC 216-823-5		11411
INDEX 603-095-00-2 $5 \le x < 6$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Eye Irrit. 2 H319         EC 220-548-6       STA Dermal: 1100 mg/kg         CAS 2807-30-9       QUARTZ         INDEX - $0,5 \le x < 1$ STOT RE 2 H373         EC 238-878-4       STOT RE 2 H373	CAS 1675-54-3		
EC 220-548-6     STA Dermal: 1100 mg/kg       CAS 2807-30-9     QUARTZ       INDEX -     0,5 ≤ x < 1	2-(propyloxy)ethanol		
CAS 2807-30-9         QUARTZ         INDEX -       0,5 ≤ x < 1	INDEX 603-095-00-2	5≤x< 6	Flam. Liq. 3 H226, Acute Tox. 4 H312, Eye Irrit. 2 H319
QUARTZ           INDEX -         0,5 ≤ x < 1	EC 220-548-6		STA Dermal: 1100 mg/kg
INDEX -     0,5 ≤ x < 1	CAS 2807-30-9		
EC 238-878-4	QUARTZ		
	INDEX -	0,5 ≤ x < 1	STOT RE 2 H373
	EC 238-878-4		
CAS 14808-60-7	CAS 14808-60-7		
Oxiran, mono[(C12-14-alkyloxy)methyl] derivs.           INDEX 603-103-00-4         0,5 ≤ x < 1	alkyloxy)methyl] derivs.	0,5 ≤ x < 1	Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 271-846-8	EC 271-846-8		
CAS 68609-97-2	CAS 68609-97-2		
ZINC OXIDE	ZINC OXIDE		
INDEX         030-013-00-7         0,1 ≤ x < 0,2         Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1	INDEX 030-013-00-7	0,1 ≤ x < 0,2	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 215-222-5	EC 215-222-5		
CAS 1314-13-2	CAS 1314-13-2		
REACH Reg. 01-2119463881-32	REACH Reg. 01-2119463881-32		

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

#### 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

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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.

#### 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, eves 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

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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 cool and 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

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

### 8.1. Control parameters

## Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;
		Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC: Directive 98/24/EC: Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

### **TRIZINC BIS (ORTHOPHOSPHATE)**

I hreshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks /
						Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	2		4		INHAL
MAK	DEU	0,1		0,4		RESP

## 2-(propyloxy)ethanol

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks /	
						Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	ITA	86	20				

QUARTZ Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP		0,05			RESP	
VLEP	FRA	0,1				RESP	
VLEP	ITA	0,1				RESP	
OEL	EU	0,1				RESP	

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TLV-ACGIH		0,025				RESP
ZINC OXIDE Threshold Limit Value	110					
Type	Country	TWA/8h		STEL/15min		Remarks /
	· · ·	and the O				Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	2		4		INHAL
MAK	DEU	0,1		0,4		RESP
VLA	ESP	2		10		
VLEP	FRA	5				
TLV-ACGIH		2		10		RESP
egend:						
C) = CEILING ; INH	AL = Inhalable Fractio	on ; RESP = F	Respirable Fra	ction ; THORA :	= Thoracic Fra	action.
8.2. Exposure contro	ols					
As the use of adequat hrough effective local a When choosing person Personal protective equ	aspiration. al protective equipme	nt, ask your che	emical substan	ce supplier for adv	/ice.	ent, make sure that the workplace is well a
Provide an emergency	shower with face and	eye wash statio	on.			
HAND PROTECTION Protect hands with cate The following should be				ompatibility degrad	dation failure	time and permeability

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 Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective 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 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.

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

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

## 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	viscous liquid	
Colour	different colours	
Odour	slightly aromatic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 65 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	7	
Kinematic viscosity	not available	
Solubility	miscible with water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,34 kg/l	
Relative vapour density	not available	
Particle characteristics	not applicable	
9.2. Other information		
9.2.1. Information with regard to physical haza	rd classes	
Information not available		
9.2.2. Other safety characteristics		
VOC (Directive 2004/42/EC) :	7,32 % - 98,03 g/litre	
VOC (volatile carbon)	3,59 % - 48,07 g/litre	

# **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

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	I
The vapours may also form explosive mixtures with the 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.
SECTION 11. Toxicological information	
In the absence of experimental data for the product itself, health hazards are evaluated according to the pro the criteria specified in the applicable regulation for classification.	operties of the substances it contains, usin
It is therefore necessary to take into account the concentration of the individual hazardous substances indicat	ed in section 3, to evaluate the toxicologic
effects of exposure to the product.	
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008	
· · · · · · · · · · · · · · · · · · ·	
Metabolism, toxicokinetics, mechanism of action and other information	
Information not evaluable	
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

Information not available

ACUTE TOXICITY

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ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	Not classified (no significant compone Not classified (no significant compone >2000 mg/kg	
TRIZINC BIS (ORTHOPHOSPHATE)		
LD50 (Oral): LC50 (Inhalation mists/powders):	> 5000 mg/kg Rat - Wistar > 5,7 mg/l Rat	
2-(propyloxy)ethanol		
LD50 (Dermal): STA (Dermal):	1,337 mg/kg 1100 mg/kg estimate from table 3.1.2 (figure used for calculation of the acute	
LD50 (Oral):	3,089 mg/kg	
2,2-bis- [4- (2,3-epoxypropoxy) phenyl] -propane		
LD50 (Dermal): LD50 (Oral):	20000 mg/kg coniglio > 4000 mg/kg ratto	
<u>SKIN CORROSION / IRRITATION</u> Does not meet the classification criteria for this haza	rd class	
Does not meet the classification criteria for this haza	rd class	
Does not meet the classification criteria for this haza	rd class	
Does not meet the classification criteria for this haza	rd class	
Does not meet the classification criteria for this haza	rd class	
Does not meet the classification criteria for this haza SERIOUS EYE DAMAGE / IRRITATION Causes serious eye irritation	rd class	
Does not meet the classification criteria for this haza <u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye irritation <u>RESPIRATORY OR SKIN SENSITISATION</u>	rd class	
Does not meet the classification criteria for this hazan <u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye irritation <u>RESPIRATORY OR SKIN SENSITISATION</u> Sensitising for the skin		
Does not meet the classification criteria for this hazar <u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye irritation <u>RESPIRATORY OR SKIN SENSITISATION</u> Sensitising for the skin <u>GERM CELL MUTAGENICITY</u>		
Does not meet the classification criteria for this hazar <u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye irritation <u>RESPIRATORY OR SKIN SENSITISATION</u> Sensitising for the skin <u>GERM CELL MUTAGENICITY</u> Does not meet the classification criteria for this hazar	rd class	

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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

### 11.2. Information on other hazards

Degradability: information not available

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**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. 12.1. Toxicity

0,78 mg/l/96h Pimephales promelas
0,86 mg/l/48h Daphnia magna
1,1 mg/l/96h Oncorhynchus mykiss
1,7 mg/l/48h Daphnia magna
0,14 mg/l/72h Pseudokirchnerella subcapitata
0,53 mg/l
0,024 mg/l
2,7 mg/l

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ZINC OXIDE		
Solubility in wat	er	2,9 mg/l
NOT rapidly de	gradable	
12.3. Bioaccumu	lative potential	
ZINC OXIDE		
BCF		> 175
12.4. Mobility in	soil	
Information not a	/ailable	
12.5. Results of	PBT and vPvB assessment	
On the basis of a	vailable data, the product does not contain any	/ PBT or vPvB in percentage ≥ than 0,1%.
12.6. Endocrine	disrupting properties	
	ilable data, the product does not contain subste	tances listed in the main European lists of potential or suspected endocrine disruptors with

### 12.7. Other adverse effects

Information not available

## **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

### 14.1. UN number or ID number

ADR / RID, IMDG, IA	FA: 3082
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

### 14.2. UN proper shipping name

		Ti.Pi.Ci. S.a.s.		Dated	21/11/2022
	16037	7 HYDROGUARD	Novolac		d on 21/11/2022
	10037		lovolac	Page	n. 12/15
				Repla	ced revision:6 (Dated: 12/03/2021)
ADR / RID:	[4- (2,3-epoxypr	TALLY HAZARDOUS SUBSTAN ropoxy) phenyl] -propane)			
IMDG: IATA:	[4- (2.3-epoxypr	TALLY HAZARDOUS SUBSTAN ropoxy) phenyl] -propane) TALLY HAZARDOUS SUBSTAN			
	[4- (2,3-ерохури	ropoxy) phenyl] -propane)	-,		
4.3. Transport ha	azard class(es)				
ADR / RID:	Class: 9	Label: 9			
IMDG:	Class: 9	Label: 9			
IATA:	Class: 9	Label: 9			
4.4. Packing gro	ир				
ADR / RID, IMDO	g, IATA:	ш			
	tal hanarda				
4.5. Environmen	tai nazarus				
ADR / RID:	Environmentally Hazardous	/			
	Environmentally				
ADR / RID:	Environmentally Hazardous	t			
ADR / RID: IMDG: IATA:	Environmentally Hazardous Marine Pollutan Environmentally Hazardous	t			
ADR / RID: IMDG: IATA:	Environmentally Hazardous Marine Pollutan Environmentally Hazardous	t		Limited Quantities: 5	Tunnel restriction
ADR / RID: IMDG: IATA: 4.6. Special prec	Environmentally Hazardous Marine Pollutan Environmentally Hazardous	t /			
ADR / RID: IMDG: IATA: 4.6. Special prec	Environmentally Hazardous Marine Pollutan Environmentally Hazardous	t / HIN - Kemler: 90		Quantities: 5 L Limited Quantities: 5	restriction
ADR / RID: IMDG: IATA: 4.6. Special prec ADR / RID:	Environmentally Hazardous Marine Pollutan Environmentally Hazardous	t / HIN - Kemler: 90 Special provision: -		Quantities: 5 L Limited	restriction code: (-) Packaging instructions:
ADR / RID: IMDG: IATA: 4.6. Special prec ADR / RID: IMDG:	Environmentally Hazardous Marine Pollutan Environmentally Hazardous	t / HIN - Kemler: 90 Special provision: - EMS: F-A, S-F		Quantities: 5 L Limited Quantities: 5 L Maximum quantity: 450 L Maximum quantity: 450	restriction code: (-) Packaging instructions: 964 Packaging instructions:
ADR / RID: IMDG: IATA: 4.6. Special prec ADR / RID: IMDG:	Environmentally Hazardous Marine Pollutan Environmentally Hazardous	t HIN - Kemler: 90 Special provision: - EMS: F-A, S-F Cargo:		Quantities: 5 L Limited Quantities: 5 L Maximum quantity: 450 L Maximum	restriction code: (-) Packaging instructions: 964 Packaging

Information not relevant

basic dividual         basic dividual           Partice on 2011/02/2012         Partice on 2011/02/2012           Partice on 2011/02/2012         Partice on 2011/02/2012           SECTION 15. Regulatory information         Is 1.1 Safety, health and environmental regulational/legislation specific for the substance or mixture           eveco Category - Directive 2012/18/EU: E2         astrictions relating to the product or contained substances pursuant to Annex XUI to EC Regulation 1907/2006           codded Point         3 - 40           antialined substance	Ti.Pi.Ci. S.a.s.	Revision nr. 7
Page: 1115         Page: 1115           Reported revealed (later: 1202001)	11.P1.Cl. 5.a.s.	
Beased resume (Date: 12 000200)  SECTION 15. Regulatory information  15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture eveno Category - Directive 2012/18/EU: E2 anticione meating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006  Coduct Print 3-40  Astrone Substance  Point 75  exulation (EU) 2019/1148-on the marketing and use of explosives precursors of applicable  ubstances in Candidate List (At 39 REACH) In the basis of available data, the product does not contain any SVHC in percentage 2 than 0,1%, ubstances subject to exportation reporting pursuant to Regulation (EU) 649/2012; and  ubstances subject to the Rotterdam Convention; and  ubstances subject to the Stockholm Convention; and  convention;  Cofformetive 2004/2/EC); w - pack performance coatings.  St. Chemical safety assessment	160377 HYDROGUARD Novolac	
SECTION 15. Regulatory information SECTION 15. Regulatory information ts1.1. Safety, health and environmental regulations/legislation specific for the substance or mixture eveso Category - Directive 2012/18/EU: E2 estrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 roduined substance Point 3 - 40 entiained substance Point 75 equilation (EU) 2019/EU: E2 equilation (EU) 2019/EU: E3 equilation (EU) 2012/EU: E3 equilatio		
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Point       3 - 40         antained substance       Point       75         equilation (EU) 2019/1148 - on the marketing and use of explosives precursors       a applicable         ubstances in Candidate List (Art. 59 REACH)       anticle subject to available data, the product does not contain any SVHC in percentage ≥ than 0,1%.         ubstances subject to authorisation (Annex XIV REACH)       anticle subject to authorisation (Annex XIV REACH)         one       ubstances subject to the Rotterdam Convention;         ubstances subject to the Rotterdam Convention;       anticle subject to the Rotterdam Convention;         one       ubstances subject to the Rotterdam Convention;         one       anticle subject to the Stockholm Convention;         one       anticle subject subject to the Stockholm Convention;         one       anticle subject subject to the Stockholm Convention;         one       anticle subject	Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/	2006
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ubstances subject to the Stockholm Convention: one ealthcare controls /orkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to th orkers' health and safety are modest and that the 98/24/EC directive is respected. OC (Directive 2004/42/EC) : wo - pack performance coatings. 15.2. Chemical safety assessment	Substances subject to the Rotterdam Convention:	
lone lealthcare controls /orkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the orkers' health and safety are modest and that the 98/24/EC directive is respected. OC (Directive 2004/42/EC) : wo - pack performance coatings. 15.2. Chemical safety assessment	None	
<pre>lealthcare controls /orkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to th orkers' health and safety are modest and that the 98/24/EC directive is respected. OC (Directive 2004/42/EC): wo - pack performance coatings. 15.2. Chemical safety assessment</pre>	Substances subject to the Stockholm Convention:	
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15.2. Chemical safety assessment	<u>/OC (Directive 2004/42/EC) :</u>	
	Γwo - pack performance coatings.	
chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.	15.2. Chemical safety assessment	
	A chemical safety assessment has not been performed for the preparation/for the substances indicated in so	ection 3.

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## **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
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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B. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)	
9. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)	
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N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition	
FA GESTIS website	
ECHA website	
Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Ita	ıy

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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

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

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.