SAFETY DATA SHEET "CONCRETE GROUT RESIN"

Complies with Annex II of REACH – Regulation (EU) 2020/878

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

1.1. Product identifier

Product name	Concrete Grout Resin – GROUT -A-
Code	P0078
UFI	S610-1085-X006-XMFF

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

Intended use	High intensity casting polyurethane

1.3. Details of the supplier of the safety data sheet

Name	HYPERGRINDER s.r.l.
Full address	Via Chieti 6
District and Country	65021 Pescara (PE) ITALIA
	Tel: +39 085 921 8160
	Web: www.hypergrinder.com
	Mail: info@hypergrinder.com

1.4. Emergency telephone number

For urgent inquiries refer to	Tel: (+39) 085 921 8160

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments ed adjustments). The product therefore requires a safety data sheet in compliance with the provisions of Regulation (EC) 2020/878.
Any additional information regarding risks to health and / or the environment are reported in the sec. 11 and 12 of this sheet.

Eye irritation, category 2	H319	Causes serious eye irritation.

2.2. Label elements.

Danger labeling according to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:

Warnings: Caution

Indications of danger:

H319 Causes serious eye irritation.

Prudential advice:

P280	Wear eye and face protection.
P337+P313	If eye irritation persists, consult a doctor.

VOC (Directive 2004/42/CE) :
Fillers / mastics - All types.
VOC expressed in g/litre of ready-to-use product: 0.00
Maximum limit : 250.00
- Catalysed with: 100.00% BETON GROUT -B-

2.3. Other hazards.
Based on the available data, the product does not contain PBT or vPvB substances in percentages greater than 0.1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not applicable.

3.2. Mixtures.

It contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
Alchilaminopoli(oxyalkylene)olo		
CAS. 25214-63-5	47,5 ≤ _x < 50	Eye Irrit. 2 H319
CE. 500-035-6		
INDEX. -		
Nr. Reg. 01-2119471485-32-0002		
Benzene, C10-13- alkyl derivatives		
CAS. 67774-74-7	28,5 ≤ _x < 30	Asp. Tox. 1 H304
CE. 267-051-0		
INDEX. -		
Tris(1-cloroisopropil)- phosphate		
CAS. 13674-84-5	9 - 10,5	Acute Tox. 4 H302
CE. 237-158-7		
INDEX. -		
Nr. Reg. 01-2119486772-26		
Oxidipropyl dibenzoate		
CAS. 27138-31-4	9 - 10,5	Aquatic Chronic 3 H412
CE. 248-258-5		
INDEX. -		

Note: Upper value of the excluded range.

The full text of the hazard statements (H) is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids well. Consult a doctor if the problem persists.
SKIN: Remove contaminated clothing from behind. Take a shower immediately. Call a doctor immediately. Wash the contaminated garments before reusing them.
INHALATION: Bring the subject to the open air. If breathing stops, practice artificial respiration. Call a doctor immediately. INGESTION: Call a doctor immediately. Do not induce vomiting. Do not administer anything that is not expressly authorized by the doctor.

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

For symptoms and effects due to the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing.

SUITABLE EXTINGUISHING MEANS
The means of extinction are the traditional ones: carbon dioxide, foam, dust and nebulized water.
UNSUITABLE EXTINGUISHING MEDIA
No one in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE
Avoid breathing combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATIONS
Cool the containers with jets of water to avoid the decomposition of the product and the development of substances potentially dangerous for health. Always wear full fire protection equipment. Collect the extinguishing waters that must not be discharged into the drains. Dispose of contaminated water used for extinction and fire residue according to current regulations.
EQUIPMENT
Normal firefighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), complete with antif iamma (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and procedures in case of emergency.

Block the loss if there is no danger.
Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid for both employees work for emergency operations.

6.2. Environmental precautions.

Prevent the product from entering sewers, surface water or groundwater.

6.3. Methods and materials for containment and cleaning.

Aspirate the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, by checking the section 10. Absorb the remainder with inert absorbent material.
Provide sufficient ventilation of the place affected by the leak. Check for any incompatibilities for the material of the containers in section 7.
Disposal of contaminated material must be carried out in accordance with the provisions of section 13.

6.4. Reference to other sections.

Any information regarding personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Manipulate the product after having consulted all the other sections of this safety data sheet. Avoid the dispersion of the product environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before access the areas where you eat.

7.2. Conditions for safe storage, including any incompatibilities.

Keep only in the original container. Store closed containers in a well-ventilated area away from direct sunlight. Store the containers away from any incompatible materials, checking section 10.

7.3. Specific end use.

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Benzene, C10-13- alkyl derivatives

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Exposition Street	Locals acute	Systemic acute	Locals chronic	Systemic chronic	Locals acute	Systemic acute	Locals chronic	Systemic chronic
Inhalation.			1,8 mg/m3	1,8 mg/m3			7 mg/m3	7 mg/m3
Dermal.			VND	4,8 mg/kg bw/d			VND	9,6 mg/kg bw/d

Alchilaminopoli(oxyalkylene)olo

Expected concentration of no effect on the environment - PNEC.

Reference value in fresh water	0,85	mg/l
Reference value in sea water	0,0085	mg/l
Reference value for sediment in fresh water	0,074	mg/kg
Reference value for sediments in sea water	0,0074	mg/kg
Reference value for water, intermittent release	1,51	mg/l
Reference value for the terrestrial compartment	0,0162	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Exposition Street	Locals acute	Systemic acute	Locals chronic	Systemic chronic	Locals acute	Systemic acute	Locals chronic	Systemic chronic
Oral.	VND	8,3 mg/kg bw/d						

Inhalation.	VND	29 mg/m3					VND	98 mg/m3
Dermal.			VND	8,3 mg/kg bw/d			VND	13,9 mg/kg bw/d

Tris(1-cloroisopropil)- phosphate

Expected concentration of no effect on the environment - PNEC.

Reference value in fresh water	0,64	mg/l
Reference value in sea water	0,064	mg/l
Reference value for sediment in fresh water	13,4	mg/kg
Reference value for sediments in sea water	1,34	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Exposition Street	Locals acute	Systemic acute	Locals chronic	Systemic chronic	Locals acute	Systemic acute	Locals chronic	Systemic chronic
Oral.			VND	0,52 mg/kg bw/d				
Inhalation.	VND	22,4 mg/m3	VND	1,46 mg/m3			VND	5,82 mg/m3
Dermal.	VND	4 mg/kg bw/d	VND	1,04 mg/kg bw/d	VND	8 mg/kg bw/d	VND	2,08 mg/kg bw/d

Legend:
VND = identified hazard but no DNEL / PNEC available; NEA = no expected exposure; NPI = no identified danger

8.2. Exposure controls

Considering that the use of appropriate technical measures should always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration.
The individual protection devices must bear the CE marking which certifies their compliance with the regulations in force.

Provide emergency shower with visocular basin.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following must be considered for the final choice of the work glove material: compatibility, degradation, break time and permeation.
In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as unpredictable. THE gloves have a wear time that depends on the duration and mode of use.
SKIN PROTECTION
Wear work clothes with long sleeves and safety footwear for professional use of category I (see Directive 89/686 / EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.
PROTECTION OF EYES
It is advisable to wear tightly fitting goggles (see standard EN 166).
RESPIRATORY PROTECTION
In case of exceeding the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product, we recommend wear a mask with type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (Ref. standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.) it is necessary to provide combined filters.
The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by the masks is limited.
In the event that the considered substance is odorless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open circuit compressed air breathing apparatus (see standard EN 137) or an external air intake respirator (see standard EN 138). For the correct choice of the respiratory protection device, refer to the EN 529 standard.
CONTROLS OF ENVIRONMENTAL EXPOSURE.
Emissions from production processes, including those from ventilation equipment, should be monitored for compliance with the environmental protection legislation.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Physical State	liquid
Color	yellowish
Smell	amine
Olfactory threshold.	Not available.
pH.	10
Melting or 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 flammability limit.	Not available.
Upper flammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapor pressure.	Not available.
Vapor density	Not available.

Relative density.	102,000
Solubility	Not available.
Partition coefficient: n-octanol / water	Not available.
Self-ignition temperature.	325 ° C.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	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.

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

Unusual reactions are not expected under normal use and storage conditions.

10.4. Conditions to avoid.

None in particular. However, follow the usual precautions with regard to chemicals.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental toxicological data on the product itself, the possible dangers of the health product have been evaluated according to the properties of the contained substances, according to the criteria set by the reference standard for classification. Consider therefore the concentration of individual hazardous substances cited in section 3, to evaluate the toxicological effects deriving from exposure to the product. The introduction of even small amounts of fluid into the respiratory system in case of ingestion or vomiting may cause bronchopneumonia and pulmonary edema.
Acute effects: contact with eyes causes irritation; symptoms may include: redness, edema, pain and tearing. Ingestion can cause health problems, which include abdominal pain with burning, nausea and vomiting.

Alchilaminopoli(oxyalkylene)olo
LD50 (Oral).2000 mg/kg Rat
LD50 (cutaneous).2000 mg/kg Rat

Benzene, C10-13- alkyl derivatives
LD50 (Oral).5000 mg/kg Rat
LD50 (cutaneous).2000 mg/kg Rat

Tris(1-cloroisopropil)- phosphate
LD50 (Oral).632 mg/kg
LD50 (cutaneous).2000 mg/kg Rat
LC50 (Inhalation).7 mg/l/4h Rat

Oxidipropyl dibenzoate
LD50 (Oral).3,914 mg/kg Ratto
LD50 (cutaneous).2000 mg/kg Rat
LC50 (Inhalation).200 mg/l/4h Rat

SECTION 12. Ecological information.

Since specific data on the preparation is not available, use according to good working practices, avoiding to disperse the product in the environment. Avoid dispersing the product in the ground or waterways. Notify the competent authorities if the product has reached watercourses or has contaminated the soil or vegetation. Take measures to minimize the effects on groundwater.

12.1. Toxicity.

Alchilaminopoli(oxyalkylene)olo	
LC50 - Fishes.	4600 mg/l/96h
EC50 - Algae / Aquatic plants	150,67 mg/l/72h
NOEC Cronic Crustaceans.	10 mg/l
NOEC Cronic Algae / Aquatic plants	4,25 mg/l Aquatic plants.
Benzene C10-13- alkyl derivatives	
LC50 - Fishes.	4,6 mg/l/96h Fishes
EC50 - Algae / Aquatic plants	150,67 mg/l/72h
NOEC Cronic Crustaceans.	21 mg/l
Tris(1-cloroisopropil)- phosphate	
LC50 - Pesci.	74,5 mg/l/96h Fishes
EC50 - Crustaceans.	209 mg/l/48h
NOEC Cronic Crustaceans.	32 mg/l
Oxidipropyl dibenzoate	
LC50 - Fishes.	3,7 mg/l/96h Fishes
NOEC Cronic Fishes.	1,2 mg/l Fishes

12.2. Persistence and degradability.

Information not available.

12.3. Potential for bioaccumulation.

Information not available.

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB.

Based on the available data, the product does not contain PBT or vPvB substances in percentages greater than 0.1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste Treatment Method

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of the waste that partially contains this product must be evaluated according to the laws in force.
Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations. CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

SECTION 14. Transport information.

14.1. ONU nUMBER.

Not applicable.

14.2. ONU shipping name.

Not applicable.

14.3. Danger classes related to transport.

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Dangers for the environment.

Not applicable.

14.6. Special precautions for users.

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

Information not applicable.

SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions related to the product or to the substances contained according to Annex XVII Regulation (EC) 1907/2006.

Product.
Point. 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorization (Attached XIV REACH).

None.

Substances subject to export notification obligation Reg. (CE) 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Sanitary checks.
Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out according to the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk for the safety and health of the worker has been assessed as irrelevant, according to the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment.

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

SECTION 16. Other information.

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

Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Danger in case of aspiration, category 1
Eye Irrit. 2	Eye irritation, category 2
Aquatic Chronic 3	Dangerous for the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement for the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service number
- EC50: Concentration that gives effect to 50% of the population subjected to tests
- CE NUMBER: ID number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008

- DNEL: Derived level without effect
- EmS: Emergency Schedule
- GHS: Global harmonized system for the classification and labeling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subjected to tests
- IMDG: International Maritime Code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predictable concentration without effects
- REACH: EC Regulation 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any moment of work exposure.
- TWA STEL: Short-term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulant according to REACH
- WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EU) 1907/2006 of the European Parliament (REACH)
2. Regulation (EU) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition