

SAFETY DATA SHEET “CONCRETE GROUT CATALYZER”

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 Catalyzer
Code 0001B
UFI 4H00-Y0R0-G007-MV SX

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

Intended use Polyurethane hardener

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 0039 3271795610

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 and 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.

Classification and indications of danger:

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
Acute toxicity, category 4	H332	Harmful if inhaled.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Respiratory sensitization, category 1A	H334	May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

2.2. Label elements.

Danger labeling according to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments. As of August 24, 2023, industrial or professional use is permitted only after having received appropriate training

Hazard pictograms:



Warnings: Caution

Indications of danger:

H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
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H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H334	May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.

Precautionary statements:

- P201** Obtain specific instructions before use.
P284 [When the ventilation of the room is insufficient] wear a respiratory protection device.
P304+P340 IN CASE OF INHALATION: move the injured person into the open air and keep him at rest in a position that favors breathing.
P308+P313 IN CASE of exposure or possible exposure, consult a doctor.
It Contains: diphenylmethanediisocyanate

2.3. Other hazards.

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

SECTION 3. Composition/information on ingredients.**3.1. Substances.**

It contains:

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

Identification.	Conc. %.	Classification 1272/2008 (CLP).
Diphenylmethanediisocyanate CAS. 9016-87-9	58 ≤ x < 62	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1A H334, Skin Sens. 1 H317 STA Inalazione vapori: 11 mg/l, STA Inalazione nebbie/polveri: 1,5 mg/l
CE. - INDEX. -		
Bis(isopropyl)naphthalene CAS 38640-62-9	4,5 ≤ x < 5	Asp. Tox. 1 H304, Aquatic Acute 1 H400 M=1
CE 254-052-6 INDEX -		

3.2. Mixtures.

Information not applicable.

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 anti-irritant (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 in 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.

Bis(isopropyl)naphthalene		
Predicted no-effect concentration for the environment - PNEC		
Reference value for sediments in fresh water	0,853	mg/kg/d
Reference value for sediments in marine water	0,085	mg/kg/d
Reference value for STP microorganisms	0,15	mg/l
Reference value for the food chain (secondary poisoning)	0,25	mg/kg

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	characteristic
Olfactory threshold.	Not available.
pH.	Not available.
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	Not available.
Solubility	Not available.
Partition coefficient: n-octanol / water	Not available.
Self-ignition temperature	Not available.
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.

In the absence of experimental toxicological data on the product itself, the possible dangers of the product for health have been evaluated on the basis of the properties of the substances contained, according to the criteria established by the reference legislation for classification. Therefore, consider the concentration of the individual dangerous substances possibly mentioned in sec. 3, to evaluate the toxicological effects deriving from exposure to the product.

11.1. Information on toxicological effects.

Metabolism, kinetics, mechanism of action and other information
Information not available

Information on likely routes of exposure
Information not available

Immediate, delayed and chronic effects resulting from short and long term exposure
Information not available

Interactive effects
Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / dusts) of the mixture: 2.42 mg/l
ATE (Inhalation - vapours) of the mixture: 17.74 mg/l
ATE (Inhalation - gas) of the mixture: Acute Tox. 4
ATE (Oral) of the mixture: Not classified (no relevant component)
ATE (Dermal) of the mixture: Not classified (no relevant component)

Diphenylmethanediisocyanate

ATE (Inhalation mists/dusts): 1.5 mg/l estimate from table 3.1.2 of Annex I of CLP (data used for the calculation of the estimate of the acute toxicity of the mixture)
ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (data used for the calculation of the estimate of the acute toxicity of the mixture)

Bis(isopropyl)naphthalene
LD50 (Dermal): > 4000 mg/kg Rat
LD50 (Oral): > 4000 mg/kg Rat
LC50 (Inhalation mists/dust): > 5.6 mg//1h Rat
SKIN CORROSION / SKIN IRRITATION
Causes skin irritation
SERIOUS EYE DAMAGE / EYE IRRITATION
Causes serious eye irritation
RESPIRATORY OR SKIN SENSITIZATION
Skin sensitizer
Respiratory sensitizer
GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class
CARCINOGENICITY
Suspected of causing cancer
REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE
May irritate the respiratory tract

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

May cause damage to organs
DANGER IN CASE OF ASPIRATION
Does not meet the classification criteria for this hazard class

11.2. Information about other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

SECTION 12. Ecological information.

Use according to good working practices, avoiding to disperse the product in the environment. Notify the competent authorities if the product has reached watercourses or has contaminated the soil or vegetation.

12.1. Toxicity.

Bis(isopropyl)naphthalene
LC50 – Fish 0.5 mg/l/96h
EC50 – Crustaceans 0.16 mg/l/48h Daphnia
EC50 - Algae / Aquatic Plants 0.15 mg/l/72h
NOEC Chronic Crustaceans 13 mg/l Daphnia (21d)

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 Direttiva 2012/18/UE.: 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 (Article 59 REACH).

None.

Substances subject to authorization (Annex 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 section 2-3 of the sheet:

Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
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
Resp. Sens. 1A	Respiratory sensitization, category 1A
Skin Sens. 1	Skin sensitization, category 1
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious ocular irritation.
H315	Causes skin irritation.
H334	May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.

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. Regolamento (CE) 1907/2006 del Parlamento Europeo (REACH)
 2. Regolamento (CE) 1272/2008 del Parlamento Europeo (CLP)
 3. Regolamento (UE) 2020/878 (All. II Regolamento REACH)
 4. Regolamento (CE) 790/2009 del Parlamento Europeo (I Atp. CLP)
 5. Regolamento (UE) 286/2011 del Parlamento Europeo (II Atp. CLP)
 6. Regolamento (UE) 618/2012 del Parlamento Europeo (III Atp. CLP)
 7. Regolamento (UE) 487/2013 del Parlamento Europeo (IV Atp. CLP)
 8. Regolamento (UE) 944/2013 del Parlamento Europeo (V Atp. CLP)
 9. Regolamento (UE) 605/2014 del Parlamento Europeo (VI Atp. CLP)
 10. Regolamento (UE) 2015/1221 del Parlamento Europeo (VII Atp. CLP)
 11. Regolamento (UE) 2016/918 del Parlamento Europeo (VIII Atp. CLP)
 12. Regolamento (UE) 2016/1179 (IX Atp. CLP)
 13. Regolamento (UE) 2017/776 (X Atp. CLP)
 14. Regolamento (UE) 2018/669 (XI Atp. CLP)
 15. Regolamento (UE) 2019/521 (XII Atp. CLP)
 16. Regolamento delegato (UE) 2018/1480 (XIII Atp. CLP)
 17. Regolamento (UE) 2019/1148
 18. Regolamento delegato (UE) 2020/217 (XIV Atp. CLP)
 19. Regolamento delegato (UE) 2020/1182 (XV Atp. CLP)
 20. Regolamento delegato (UE) 2021/643 (XVI Atp. CLP)
 21. Regolamento delegato (UE) 2021/849 (XVII Atp. CLP)
 22. Regolamento delegato (UE) 2022/692 (XVIII 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
 - ECHA Agency Website Note to the user:

The information contained in this sheet is based on the knowledge available from us at the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force concerning hygiene and safety under his own responsibility. We do not take responsibility for improper use.

Provide adequate training for personnel involved in the use of chemical products.