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Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

1. Identification			
1.1. Product identifier			
Code:	IND-GLAXS1	1	
Product name		GLAXS DOSAGGIO 1:1	
CAS number	160994-68-3		
Registration Number	polymer		
1.2. Relevant identified uses of the substance or m	ixture and use	es advised against	
Intended use	Glue for nat	ural stones and ceramics - pai	tВ
Identified Uses	Industrial	Professional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR	~	✓	
1.3. Details of the supplier of the safety data sheet			
Name	TENAX SPA		
Full address	Via I Maggio		
District and Country	37020	Volargne	(VR)
		Italy	
	Tel. Fax	+39 045 6887593 +39 045 6862456	
e-mail address of the competent person			
responsible for the Safety Data Sheet	msds@tena:	K.IT	
Supplier:	Tenax Usa		
	7606 Whiteh	all Executive Center Drive Sui	te 400, 28273 Charlotte NC, US
	Tel. 001 704	5831173 - Fax 001 7045833166	
	info@tenaxu	isa.com	
1.4. Emergency telephone number			
For urgent inquiries refer to	Infotrac		
	US and Cana	ada: 1-800-535-5053	
	Int'l: 1-352-3		
	info@infotra	c.net	
2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to 1910.1200). The product thus requires a safety dat		set forth in OSHA Hazard Comm	nunication Standard (HCS) (29 CFR
Any additional information concerning the risks for		e environment are given in sect	ions 11 and 12 of this sheet
Classification and Hazard Statement			
Acute toxicity, category 4		Harmful if inhaled.	totion
Specific target organ toxicity - single exposure, category 3		May cause respiratory irrit	auon.
Skin sensitization, category 1B		May cause an allergic skir	n reaction.
Hazard pictograms:		, 0	
\wedge			
Signal words: Marsing			
Signal words: Warning			
Hazard statements:			
			EPY 11.1.2 - SDS 1004.14

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2. Hazards identification ... / >>

H332	Harmful if inhaled.			
H335	May cause respiratory irritation. May cause an allergic skin reaction.			
H317	May cause an allergic se	in reaction.		
Precautionary statements:				
Prevention:				
P261	Avoid breathing dust / fu	me / gas / mist / vapours / spray.		
P280	Wear protective gloves.			
P271	Use only outdoors or in a			
P272	Contaminated work cloth	ing should not be allowed out of the workplace.		
Response:				
P312		R / doctor / / if you feel unwell.		
P333+P313		ccurs: Get medical advice / attention.		
P304+P340		rson to fresh air and keep comfortable for breathing.		
P302+P352	IF ON SKIN: wash with p			
P363	Wash contaminated clot	hing before reuse.		
Storage:				
P403+P233		place. Keep container tightly closed.		
P405	Store locked up.			
Disposal:				
P501	Dispose of contents / co	ntainer according to applicable law.		
2.2. Other hazards				
2.2. Other hazards				
Environmental classification	as for Reg. (EC) 1272/2008	(CLP)		
The product is classified as h	azardous for environment p	ursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).		
Classification and Hazard Sta	atement			
Hazardous to the aquatic	environment, chronic toxicit	y, category 3 Harmful to aquatic life with long lasting effects.		
Hazard statements:				
H412	Harmful to aquatic life w	th long lasting effects.		
Precautionary statements:				
Prevention:				
P273	Avoid release to the env	ironment.		
Response:				
Storage:				
Disposal				
Disposal: P501	Disposo of contonts / co	ntainer according to applicable law.		
F 301	Dispose of contents / co			
Additional hazards				
Information not available				
		4-		
3. Composition/inform	nation on ingredien	tS		
3.1. Substances				
5.1. Oubstances				
Contains:				
Identification	x = Conc. %	Classification:		
Hydrophilic aliphatic polyis	socyanate			
CAS 160994-68-3	98 ≤ x < 100	Acute toxicity, category 4 H332, Specific target organ toxicity - single		
		exposure, category 3 H335, Skin sensitization, category 1B H317,		
		Hazardous to the aquatic environment, chronic toxicity, category 3 H412		
EC				
INDEX				
REACH Reg. polymer				
* There is a batch to batch variation.				
The full wording of hazard (H	l han a a a a a a b can be a a a fi a u	1 16 of the sheet.		
	i) phrases is given in section			
	i) phrases is given in section			
	i) phrases is given in section			



4. First-aid measures

4.1. Description of first aid measures

If swallowed: DO NOT induce vomiting. Medical intervention required.

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

Information not available

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

Information not available

5. Fire-fighting 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.

In the event of a fire, carbon monoxide and oxide, nitrogen oxides, isocyanate vapors and traces of hydrogen cyanide are formed.

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).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

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6. Accidental release measures ... / >>

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.

7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Information not available

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. Personal protective equipment must comply with current regulations. HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): 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 I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

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 NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). 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 or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

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.

HAND PROTECTION: Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1: 2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time> 480 minutes. Material thickness: NITRILE short contact> 0.38 mm prolonged contact> 0.55 mm FLUOROELASTOMER short contact> 0.50 mm prolonged contact> 1.50 mm



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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	SLIGHT YELLOW	
Odour	mild	
Odour threshold	not available	
рН	not available	
Melting point / freezing point	not available	
Initial boiling point	300 °C (572 °F)	
Boiling range	not available	
Flash point	230 °C (446 °F)	
Evaporation rate	not available	
Flammability	not available	
Lower inflammability limit	not available	
Upper inflammability limit	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Vapour pressure	12 hPa	Temperature: 20 °C
Vapour density	not available	
Relative density	1.16 g/cm3	
Solubility	immiscible with water	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	not available	
Oxidising properties	not available	
9.2. Other information		

Information not available

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

No hazardous reactions are foreseeable in normal conditions of use and storage.

Exothermic reaction with amines and alcohols. With water, CO2 gradually develops, pressure increases in closed containers. Danger of bursting.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available



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11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

Hydrophilic aliphatic polyisocyanate LD50 (Oral): LD50 (Dermal): LC50 (Inhalation mists/powders):

> 2000 mg/kg Ratto > 2000 mg/kg Ratto 0.39 mg/l/4h Ratto

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

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



12. Ecological information

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

12.1. Toxicity		
Hydrophilic aliphatic polyisocyanate		
LC50 - for Fish	28.3 mg/l/96h Danio rerio	
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Scenedesmus subspicatus	
12.2. Persistence and degradability		
Hydrophilic aliphatic polyisocyanate NOT rapidly degradable 12.3. Bioaccumulative potential		
Information not available 12.4. Mobility in soil		
Information not available		
12.5. Results of PBT and vPvB assessment		
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%. 12.6. Other adverse effects		
Information not available		
13. Disposal considerations		
12.1 Wests treatment methods		

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

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

14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable



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14. Transport information ... / >>

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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

Information not relevant

15. Regulatory information

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

U.S. Federal Regulations

TSCA: All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b): No component(s) listed.

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: No component(s) listed.

EPCRA 313 TRI: No component(s) listed.

RCRA Code: No component(s) listed.



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15. Regulatory information ... / >>

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

Massachussetts: No component(s) listed.

Minnesota: No component(s) listed.

New Jersey: No component(s) listed.

New York: No component(s) listed.

Pennsylvania: No component(s) listed.

California: No component(s) listed.

Proposition 65: This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

16. Other information

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

H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- 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
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level



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16. Other information ... / >>

- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- 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.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

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

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.