

GLAXS ORIGINAL CARTUCCIA PARTE B

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Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

GLAXS ORIGINAL CARTUCCIA PARTE B Product name

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

Intended use **BICOMPONENT GLUE IN CARTRIDGE - PART B**

Identified Uses	Industrial	Professional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE			
SECTOR	-	\checkmark	-
1.3. Details of the supplier of the safety data sheet			
Name	Tenax Spa		
Full address	Via I Maggio, 226		
District and Country	37020 Volargne	(VR)
•	Italy		
	Tel. +39 045 688759	93	
	Fax +39 045 686245	56	
e-mail address of the competent person			
responsible for the Safety Data Sheet	msds@tenax.it		
1.4. Emergency telephone number			
For urgent inquiries refer to	900 992200 (24b)	Contro Antivoloni (Pe	orgama)

1.4

For urgent inquiries refer to 800.883300 (24h) Centro Antiveleni (Bergamo)

0 800 314 7900 (Turkey) only, or +90 0312 433 70 01 Toxicology Department and

Poisons Centre

+98 21 6419306 / +98 21 6405569 **Poisons Information Centre (Tehran)**

+91 484 4008056 Poison Control Centre (South India)

(011) 642 2417 / (011) 488 3108 Anti-Poison Centre (Johannesburg)

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

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:

H332 Harmful if inhaled. Acute toxicity, category 4

Specific target organ toxicity - single exposure, H335 May cause respiratory irritation.

category 3

Skin sensitization, category 1 H317 May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning



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SECTION 2. Hazards identification .../>>

Hazard statements:

H332 Harmful if inhaled.

H335 May cause respiratory irritation.H317 May cause an allergic skin reaction.

EUH204 Contains isocyanates. May produce an allergic reaction.
EUH208 Contains: HEXAMETHYLENE-DI-ISOCYANATE

May produce an allergic reaction.

Precautionary statements:

P280 Wear protective gloves.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P312 Call a POISON CENTER / doctor / . . . / if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Contains: ALIPHATIC POLYISOCYANATE

HEXAMETHYLENE-DI-ISOCYANATE

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

ALIPHATIC POLYISOCYANATE

CAS 28182-81-2 $55 \le x < 100$

EC 500-060-2

INDEX

Reg. no. 01-2119485796-17-XXXX **HEXAMETHYLENE-DI-ISOCYANATE**

CAS 822-06-0 0,4 ≤ x < 0,45 Acute Tox. 3 H331, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335,

Resp. Sens. 1 H334, Skin Sens. 1 H317,

Classification note according to Annex VI to the CLP Regulation: 2

Acute Tox. 4 H332, STOT SE 3 H335, Skin Sens. 1 H317, EUH204

EC 212-485-8 INDEX 615-011-00-1

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. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly 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

Information not available



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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, 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.

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

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



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

ISOCYANATE				
		0,127	mg/l	
		0,0127	mg/l	
	2	266700	mg/kg	
	2	26670	mg/kg	
		1,27	mg/l	
	;	38,3	mg/l	
	;	53182	mg/kg	
Ef	ffects on workers	3		
hronic Ad	cute	Acute	Chronic	Chronic
ystemic lo	ocal	systemic	local	systemic
1			0,5	-
	n	mg/m3		•

			HEXAMETHYLE	NE-DI-ISOCY	ANATE			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,077	mg/l	
Normal value in marir	ne water					0,008	mg/l	
Normal value for fres	h water sedi	iment				0,013	mg/kg	
Normal value for mar	ine water se	ediment				0,001	mg/kg	
Normal value for water	er, intermitte	ent release				0,774	mg/l	
Normal value of STP	microorgan	isms				8,42	mg/l	
Normal value for the	terrestrial co	mpartment				0,003	mg/kg	
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation					0,07 mg/m3	0,07 mg/m3	0,035 mg/m3	0,035 mg/m3

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYÉ 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 B 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



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The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance liauid Colour SLIGHT YELLOW odourless Odour Odour threshold Not available Not available рΗ Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available 169,5 °C Flash point **Evaporation Rate** Not available Not available Flammability of solids and gases Lower inflammability limit Not available Not available Upper inflammability limit Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density 1,13 g/cc insoluble in water Solubility Partition coefficient: n-octanol/water Not available Not available Auto-ignition temperature Not available Decomposition temperature Not available

Information

9.2. Other information

Explosive properties

Oxidising properties

Viscosity

VOC (Directive 2010/75/EC): 0 VOC (volatile carbon):

SECTION 10. Stability and reactivity

10.1. Reactivity

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

HEXAMETHYLENE-DI-ISOCYANATE

Decomposes at 255°C/491°F.Polymerises at temperatures above 200°C/392°F.

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.

HEXAMETHYLENE-DI-ISOCYANATE

May form explosive mixtures with: alcohols,bases.May react violently with: alcohols,amines,strong bases,oxidising agents,strong acids,water.

Not available

Not available

10.4. Conditions to avoid

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

HEXAMETHYLENE-DI-ISOCYANATE

Avoid exposure to: high temperatures, moisture.

10.5. Incompatible materials

HEXAMETHYLENE-DI-ISOCYANATE



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SECTION 10. Stability and reactivity/>>

Incompatible with: alcohols,carboxylic acids,amines,strong bases.

10.6. Hazardous decomposition products

HEXAMETHYLENE-DI-ISOCYANATE

May develop: nitric oxide, hydrogen cyanide.

SECTION 11. Toxicological information

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

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

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

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

LC50 (Inhalation) of the mixture: 10,82 mg/l

LD50 (Oral) of the mixture:

Not classified (no significant component)
LD50 (Dermal) of the mixture:

Not classified (no significant component)

ALIPHATIC POLYISOCYANATE

 LD50 (Oral)
 > 2500 mg/kg Rat

 LD50 (Dermal)
 > 2000 mg/kg Rat

 LC50 (Inhalation)
 0,39 mg/l/4h

HEXAMETHYLENE-DI-ISOCYANATE

 LD50 (Oral)
 746 mg/kg Rat

 LD50 (Dermal)
 570 mg/kg Rabbit

 LC50 (Inhalation)
 0,124 mg/l/4h Rat

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 May produce an allergic reaction. Contains: HEXAMETHYLENE-DI-ISOCYANATE HEXAMETHYLENE-DI-ISOCYANATE

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY



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Toxicological information

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

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

ALIPHATIC POLYISOCYANATE

LC50 - for Fish

> 100 mg/l/96h > 100 mg/l/48h Daphnia magna EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus 100 mg/l Desmodesmus subspicatus

HEXAMETHYLENE-DI-ISOCYANATE

EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants > 77,4 mg/l/72h Desmodesmus subspicatus 11,7 mg/l Desmodesmus subspicatus

12.2. Persistence and degradability

ALIPHATIC POLYISOCYANATE NOT rapidly degradable

HEXAMETHYLENE-DI-ISOCYANATE NOT rapidly degradable

12.3. Bioaccumulative potential

HEXAMETHYLENE-DI-ISOCYANATE

Partition coefficient: n-octanol/water 32 **BCF** 3,2

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 greater than 0,1%.

12.6. Other adverse effects

Information not available



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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.

CONTAMINATED PACKAGING

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

SECTION 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

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 MARPOL73/78 and the IBC Code

Information not relevant

SECTION 15. Regulatory information

.1. Safety, health	and environmental regulations/	legislation specific for the substance or mixture
Seveso Category	- Directive 2012/18/EC:	None
	ng to the product or contained sub	stances pursuant to Annex XVII to EC Regulation 1907/2006
Product Point	3	
	andidate List (Art. 59 REACH) vailable data, the product does not	contain any SVHC in percentage greater than 0,1%.
Substances subje	ect to authorisation (Annex XIV RE	ACH)
Substances subje	ect to exportation reporting pursuar	nt to (EC) Reg. 649/2012:
Substances subje	ect to the Rotterdam Convention:	_
Substances subje	ect to the Stockholm Convention:	

Healthcare controls

None

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks



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SECTION 15. Regulatory information/>

related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1

Skin Sens. 1 Skin sensitization, category 1

H331 Toxic if inhaled.H332 Harmful if inhaled.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

EUH204 Contains isocyanates. May produce an allergic reaction.

LEGEND:

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

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament



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SECTION 16. Other information/>>

- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/1480 (XIII 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
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 10 / 11 / 12 / 15 / 16.