

Revision nr.22 Dated 20/12/2018 Printed on 13/02/2019 Page n. 1 / 9 Replaced revision:21 (Dated 29/11/2017)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product name Chemical name and synonym	CATALIZZATORE PASTA Benzoyl peroxide
1.2. Relevant identified uses of the substance or m	ixture and uses advised against
Intended use	Hardener for polyester unsatured resins.
Identified Uses	Industrial Professional Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR	
1.3. Details of the supplier of the safety data sheet	
Name Full address District and Country	Tenax Spa Via I Maggio, 226 37020 Volargne (VR) Italy Tel. +39 045 6887593 Fax +39 045 6862456
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	800.883300 (24h)Centro Antiveleni (Bergamo)0 800 314 7900 (Turkey) only, or +90 0312 433 70 01Toxicology Department andPoisons Centre+98 21 6419306 / +98 21 6405569Poisons Information Centre (Tehran)+91 484 4008056Poison Control Centre (South India)(011) 642 2417 / (011) 488 3108Anti-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 2015/830.

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:		
Organic peroxide, category EF	H242	Heating may cause a fire.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, acute	H400	Very toxic to aquatic life.
toxicity, category 1		
Hazardous to the aquatic environment, chronic	H410	Very toxic to aquatic life with long lasting effects.
toxicity, category 1		

2.2. Label elements

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

Hazard pictograms:





Revision nr.22 Dated 20/12/2018 Printed on 13/02/2019 Page n. 2 / 9 Replaced revision:21 (Dated 29/11/2017)

ECTION 2. Hazards identification

Signal words:	Warning
Hazard statements:	
H242	Heating may cause a fire.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary staten	nents:
P501	Dispose of contents / container according to applicable law.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
Contains:	Benzoyl peroxide

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%.

			not contain any i bit of vi vb in percentage greater than e, i ve
SECTION 3.	Composition/	informati	ion on ingredients
3.2. Mixtures			
Contains:			
Identification	x = Conc	. %	Classification 1272/2008 (CLP)
Benzoyl pero	xide		
CAS	<i>94-36-0</i> 50 ≤	x < 100	Org. Perox B H241, Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10, Classification note according to Annex VI to the CLP Regulation: T
EC INDEX Reg. no.	202-327-6 617-000-00-0 01-2119511472-50	-0000	

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

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.



SECTION 5. Firefighting measures

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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. 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 ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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

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.

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.



Revision nr.22 Dated 20/12/2018 Printed on 13/02/2019 Page n. 4 / 9 Replaced revision:21 (Dated 29/11/2017)

SECTION 8. Exposure controls/personal protection

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 Directive 89/686/EEC 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 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

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

0 0

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

-		
Properties		Value
Appearance		pasty
Colour		white
Odour		typical
Odour threshold		Not available
рН		Not available
Melting point / freezing point		Not available
Initial boiling point		Not available
Boiling range		Not available
Flash point	>	93 °C
Evaporation Rate		Not available
Flammability of solids and gases		Not available
Lower inflammability limit		Not available
Upper inflammability limit		Not available
Lower explosive limit		Not available
Upper explosive limit		Not available
Vapour pressure		Not available
Vapour density		Not available
Relative density		1,1
Solubility		Not available
Partition coefficient: n-octanol/water		Not available
Auto-ignition temperature		Not applicable
Decomposition temperature		Not available
Viscosity		Not available
Explosive properties		Not available
Oxidising properties		Not available
J		

9.2. Other information

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

Information



Revision nr.22 Dated 20/12/2018 Printed on 13/02/2019 Page n. 5 / 9 Replaced revision:21 (Dated 29/11/2017)

SECTION 10. Stability and reactivity

10.1. Reactivity

Information not available

10.2. Chemical stability

The product is stable if stored in original containers at temperatures lower than the self accelerated decomposition temperature (SADT).

10.3. Possibility of hazardous reactions

Information not available

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. Avoid transferring into containers that may have been contaminated with other substances. Avoid storing close to inflammable or combustible products.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the formation of explosive peroxides or other potentially hazardous substances.

SECTION 11. Toxicological information

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

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY



SECTION 11. Toxicological information ... / >>

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

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

SECTION 12. Ecological information

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

12.1. Toxicity

Benzoyl peroxide LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants EC10 for Crustacea Chronic NOEC for Fish Chronic NOEC for Algae / Aquatic Plants 12.2. Persistence and degradability	0,0602 mg/l/96h Oncorhynchus mykiss 0,11 mg/l/48h Daphnia magna 0,0711 mg/l/72h Pseudokirchneriella subcapitata 0,001 mg/l/28d 0,0316 mg/l 0,02 mg/l
Benzoyl peroxide Entirely degradable 12.3. Bioaccumulative potential	
Benzoyl peroxide Partition coefficient: n-octanol/water 12.4. Mobility in soil	3,2
Benzovl peroxide	
Partition coefficient: soil/water	3,8
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does no	t contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available



Revision nr.22 Dated 20/12/2018 Printed on 13/02/2019 Page n. 7 / 9 Replaced revision:21 (Dated 29/11/2017)

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

ADR / RID, IMDG, IATA: 3108

14.2. UN proper shipping name

ADR / RID:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
IMDG:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
IATA:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

14.3. Transport hazard class(es)

ADR / RID:	Class: 5.2	Label: 5.2	
IMDG:	Class: 5.2	Label: 5.2	
IATA:	Class: 5.2	Label: 5.2	

14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous
ADR / RID:	Environmentally Hazardous

NO

IMDG: Marine Pollutant



IATA:

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: -	Limited Quantities: 500 gr	Tunnel restriction code: -
11/10/0	Special Provision: -	Lincite d Oursetitie ex 500 en	
IMDG:	EMS: F-J, S-R	Limited Quantities: 500 gr	
IATA:	Cargo:	Maximum quantity: -	Packaging instructions: 570
	Pass.:	Maximum quantity: -	Packaging instructions: 570
	Special Instructions:	-	

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

Information not relevant



Revision nr.22 Dated 20/12/2018 Printed on 13/02/2019 Page n. 8 / 9 Replaced revision:21 (Dated 29/11/2017)

SECTION 15. Regulatory information

SECTION 15. Regulat	ory information
15.1. Safety, health and envir	ronmental regulations/legislation specific for the substance or mixture
Courses Cotomore Directive	
Seveso Category - Directive	e 2012/18/EC: P6b-E1
Restrictions relating to the p	product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product	
Point 3	3
Substances in Candidate Lis	st (Art. 59 REACH)
On the basis of available da	ta, the product does not contain any SVHC in percentage greater than 0,1%.
Substances subject to author	prisation (Annex XIV REACH)
None	
.	
Substances subject to expor	rtation reporting pursuant to (EC) Reg. 649/2012:
NOTE	
Substances subject to the R	totterdam Convention:
None	
Substances subject to the S	tockholm Convention:
None	
Healthcare controls	
	emical agent must not undergo health checks, provided that available risk-assessment data prove that the risks
•	h and safety are modest and that the 98/24/EC directive is respected.
45.0 Chamical adats assess	
15.2. Chemical safety assess	ment
No chemical safety assessm	nent has been processed for the mixture and the substances it contains.
SECTION 16. Other ir	iformation
Text of hazard (H) indication	ns mentioned in section 2-3 of the sheet:
Org. Perox B	Organic peroxide, category B
Org. Perox EF Eye Irrit. 2	Organic peroxide, category EF Eye 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
H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H319	Causes serious eye irritation.

LEGEND:

H317

H400

H410

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

Very toxic to aquatic life.

May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

- 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



ECTION 16. Other information

- 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
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. 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)
- 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: 02 / 03 / 05 / 09 / 12 / 16.