SAFETY DATA SHEET

in accordance with regulation (EC) 1907/2006 REACH & (EU) No. 2020/878

RATING DATE 29/06/2019 - Rev. N° 1 - 20/03/2024

2293 Vermiculite boards

1 - IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND COMPANY/ UNDERTAKING

1.1	**Identification of the product**	Vermiculite boards
	Trade name	2293 Vermiculite boards
	Grade	Solid
	Product code	2293
1.2	**Identified uses and recommended for the substance or mixture**	Product for industrial use only
	Applications	Metallurgical industry, automotive industry, construction, ovens, boilers, stoves, thermo fireplaces, fireplaces and interiors of tiled stoves, industrial insulation, blast furnaces, boiling water containers, insulation of chimneys.

1.3	**Details of the supplier of the safety data sheet**	
	Company name	TEXPACK srl unipersonale
	Address	Via Galileo Galilei, 24 25030 Adro (BS)
	Telephone and Fax nr	+39 030740168 - +39 0307480201
	e-mail address	info@texpack.it
1.4	**Emergency Calls**	+ 39 030 7480168 only during office hours CAV Niguarda Cà Granda Hospital - Milan Tel. 02/66101029 CAV National Toxicological Information Center - Pavia Tel. 0382/24444 Poison Control Center Bergamo - 80011858 (CAV Ospedali Riuniti - Bergamo) Poison Control Center Verona - 800011858 (Integrated Hospital - Verona) Poison Control Center Florence - Tel. 055/7947819 ('Careggi' Hospital Medical Toxicology Unit-Florence) Poison Control Center Rome - Tel. 06/3054343 (CAV Policlinico Gemelli - Rome) Poison Control Center Rome - Tel. 06/49978000 (CAV Policlinico Umberto I - Rome) Poison Control Center Rome - Tel. 06/68593726 (CAV Pediatric Hospital 'Bambino Gesù' DEA - Rome) Poison Control Center Naples - Tel. 081/7472870 (CAV Cardarelli Hospital - Naples) Poison Control Center Foggia - Tel. 800183459 (CAV Az. Osp. Univ. Foggia - Foggia)

2 – HAZARD IDENTIFICATIONS

2.1	**Classification of substance or mixture**
	This mixture is classified as ***non-hazardous*** according to current directives
2.1.1	**European Regulation (EC) 1272/2008, as mentioned**
2.1.2	**Classification according to the CLP (Classification Labelling an Packaging, Regulation (EC) No 1272/2008).**

Hazard class	Hazard category	H-phrases
None	None	None

2.2	Label elements:	None
2.2.1	Names on the label:	None
2.2.2	Signal word :	None

2.2.3	Hazard pictograms:	None
2.2.4	Hazard :	None
2.2.5	Safety advice:	None
2.3	Other hazards: The product is biologically inert. Not hazardous under normal conditions of handling and use. Ecological injuries are not known or expected under normal use. Thermal decomposition can lead to release of toxic and corrosive gases. Based on available data, the product does not contain PBT or vPvB substances in percentages ≥ 0.1%. The product does not contain substances having properties of interference with the endocrine system concentration >= 0.1%.	

3 – COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Mixture
3.2 Concentration

Name	**Remarks**	**CAS N°**	**Risk Phrases**	**Classification in according to (EC) No 1272/2008**
Vermiculite	-	1318-00-9	None	Not classified as dangerous
Inorganic binders	-	-	None	Not classified as dangerous

4 – FIRST AID MEASURES

4.1	**Description of first aid measures** **Symptomatology following exposure to products of thermal decomposition**	
4.1.1	If inhaled	Ensure fresh air, in case of problems, if exposed to dusty environments, contact your doctor.
4.1.2	In case of contact with skin	In case of exposure to dust and consequent irritation, wash immediately with soap and water and rinse well. Do not scrape or rub the affected parts. If skin irritation persists, contact your doctor
4.1.3	Eye contact	If a particle of dust enters the eyes, wash with running water keeping the eyelids open for a few minutes.
4.1.4	Ingestion	Not a probable route of exposure. However, in case of accidental ingestion, call a physician.
4.2	**First Aid Measures in case of exposure to gases from thermal decomposition**	
4.2.1	If inhaled	Move immediately affected person to fresh air. Seek medical attention immediately. If not breathing, supply artificial respiration, preferably mouth to mouth. In case of difficult breathing, give oxygen. The symptoms by inhalation of the Decomposition products do not occur until several hours after exposure. Keep the affected person under medical observation for at least 48 hours. A timely medical attention is absolutely required.
4.2.2	Eye contact	Flush immediately and copiously with water for at least 15 minutes, retracting eyelids often. Seek medical attention in case burns continues.
4.2.3	In case of contact with skin	Wash immediately with water and soap (pay particular attention to flushing skin under nails). Seek medical attention in case burns continues.
4.2.4	If swallowed	Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

5 – FIRE FIGHTING MEASURES

5.1	**Specific hazards**
5.1.1	This is non-flammable material, which does not encourage combustion. Only the packaging materials are combustible (plastic film, paper, cardboard, wood), as well as reduced quantities of coating or binders / PVC whose combustion may emit a small amount of dangerous gases.
	In the event of fire, corrosive and toxic gases from thermal decomposition may be formed, like Carbon monoxide (CO)
5.2	**Extinguishing media**

5.2.1	Water (spray, fog, stream), CO_2, chemicals in powder or foam.
5.3	**Specific methods**
5.3.1	In case of surrounding fire, if possible, remove the containers in a safety place. To do only if in safe conditions (safety distance from the flames and staying upwind)
	In case of impending fire, keep containers cool by spraying with water.
5.4	**Protection of fire-fighters**
5.4.1	Self contained breathing apparatus.
	Full anti-acid clothing.

6 – ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions**
	In case of dusty environments, avoid contact with eyes and skin. For further instructions, see section 8.
6.2	**Environmental precautions**
	No special measures required - all types of residues are considered as industrial waste or non-hazardous special waste.
6.3	**Methods for cleaning up**
	Vacuum clean, treat according to local regulations.
6.4	**Reference to other sections**
	None

7 – HANDLING AND STORAGE

7.1	**Handling**
7.1.1	**Precautions**
	It is important to prevent prolonged contact with the skin. Use personal protective equipment as reported in section 8. Prevent and minimize dust formation during use of the product In case of dust formation on the process lines, install suitable suction systems. Make sure that the processing machinery is equipped with suitable extraction systems.
7.1.2	**Security measures**
	Attention to the integrity of the packaging.
7.2	**Conditions for safe storage, including any incompatibilities**
7.2.1	**Storage**
	Do not store in places with high humidity, to avoid damaging the products and their packaging, as it could compromise the safety of storage.
7.2.2	**Packaging**
	Specific

8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1	Although wool is not considered hazardous, some mechanical processes can create dust or fibers that can be carried by air (see section 11).
8.2.1	**Exposure controls**
	Ensure local exhaust ventilation and / or a general ventilation system suitable for maintaining concentrations below the intended limits.
8.2.2	**Individual protection measures**
8.2.2.1	**Respiratory protection**
	During the activities, in which a high quantity of powders is released, use the authorized dust masks (according to the EEC standards), the minimum type FP1 or better FP2.
8.2.2.2	**Hand Protection**
	To prevent irritation, wear gloves

8.2.2.3	**Eye protection**
	In case of high concentration of dust, wear safety glasses
8.2.2.4	**Body protection**
	Long-sleeved clothing and / or work overalls / appropriate suits People with sensitive skin should apply a protective cream to exposed parts of the skin
8.2.2.5	**Hygiene measures**
	When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Handle in accordance with good practice of industrial hygiene and safety practice
8.2.3	**Environmental exposure control**
	Every four years, the working environment is monitored. Result: not dangerous

9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1	**Information on basic physical and chemical.**	
	Vermiculite	
9.1.1	**general information**	
	Appearance	Solid
	Odour	Odourless
	Colour	Beige
	Density	400-500 kg/m^3
	Point of fusion	1.350 °C
	pH	5,5
	Softening point	Data not aviable
	Flash point	Not infiammable
	explosive properties	Not explosive
	oxidizing properties	Non-oxidizing
	Decomposition temperature	Data not aviable
	Solubility in water	Data not aviable
	Solubility in organic solvent	Data not aviable
	Percent volatile	Data not aviable
	VOC Less H_2O & Exempt solvents	Not applicable

10 – STABILITY AND REACTIVITY

10.1	**Stability**
	The product is stable under normal conditions of use and storage and under normal conditions of use. As previously described, some substances could be released during hot processes or during storage.
10.2	**chemical stability**
	The product is chemically stable.
10.3	**Possibility of hazardous reactions**
	No dangerous chemical reactions are known.
10.4	**Conditions to avoid**
	To avoid thermal decomposition, do not overheat. Stable under normal conditions.
10.5	**Materials to avoid**
	No materials to avoid are known.
10.6	**Hazardous decomposition products**
	See section 5, where the decomposition products that are created during combustion are listed

11 – TOXICOLOGICAL INFORMATION

11.1	**Acute toxicity**
	Negligible
11.1.1	**Acute oral toxicity**
	Not known
11.1.2	**Acute inhalation toxicity**
	Not known
11.2	**Corrosion / Skin Irritation**
	Possibility of temporary irritations. This irritation is only mechanical and temporary. Irritation disappears as soon as the exposure ends. It can affect the skin, the eyes and the upper part of the respiratory system.
11.3	**Serious eye damage / eye irritation**
	Possibility of temporary irritations. This irritation is only mechanical and temporary. The irritation disappears as soon as the exposure ends
11.4	**Sensitisation**
	certain allergies to the continuous glass yarns have been declared.
11.5	**Mutagenicity**
	No date available
11.6	**Carcinogenicity**
	Not classifiable as a human carcinogen
11.7	**Toxic for reproduction**
	No toxicity to reproduction
11.8	**Repeated dose toxicity**
	No date available
11.9	**Other informations**
	None

12 – ECOLOGICAL INFORMATION

12.1	**Toxicity**
	Toxicity to fish: the substance is a polymer and no toxic effects are expected
12.2	**Persistence and Degradability**
	no data available
12.2.1	**Abiotic degradation**
	no data available
12.2.2	**Biodegradation**
	no data available
12.3	**Biocumul potential**
	no data available
12.4	**Mobility in soil**
	no data available
12.5	**Results of PBT and vPvB**
	no data available
12.6	**Interference properties with the endocrine system**
	No interference
12.7	**Other adverse effects**
	no data available

13 – DISPOSAL CONSIDERATIONS

13.1	**Waste treatment**
	Proceed with the valid waste disposal regulations.

13.2	**Packaging treatment**
	Dispose of in authorised landfills according to local laws and regulations.

14 – TRANSPORT INFORMATION

14.1	**Specific hazards**	
	The product is not classified as dangerous in transportation.	
14.2	**Packaging information**	
	none	
14.3	**International transport classification**	
	Packaging group:	not assigned
	U.N. Number:	not assigned

15 – REGULATORY INFORMATION

15.1 **EC Regulations**

Regulation (CE) n.1907/2006
Regulation (CE) n. 453/2010
Regulation (CE) n. 2015/830

Health, safety and environmental laws and regulations specific to the substance or mixture
Seveso Category - Directive 2012/18/EU: None
Restrictions relating to the product or substances contained according to Annex XVII Regulation (EC) 1907/2006
None
Regulation (EU) 2019/1148 - relating to the placing on the market and use of explosives precursors
Not applicable
Substances in Candidate List (Art. 59 REACH)
Based on available data, the product does not contain SVHC substances in percentages ≥ 0.1%.
Substances subject to authorization (Annex XIV REACH)
None
Substances subject to export notification requirements Regulation (EU) 649/2012:
None
Substances subject to the Rotterdam Convention:
None
Substances subject to the Stockholm Convention:
None
Sanitary checks
Information not available

15.2	**Classifications**	
	Hazard class:	none
	Classification type:	not required
15.3	**Labelling**	
	Nome depositato	2293 Vermiculite boards
	Hazard Symbol	None
15.4	**Chemical Safety Assessment**	
	None	

16 – OTHER INFORMATIONS

16.1	**Text of hazard "H" referred to under sections 2-3**
	none
16.2	**Text of risk phrases "R" mentioned in section 2-3**
	none

16.3	**Other information**
	Safety data sheet according to Regulation (CE) n.1907/2006 and (CE) n.453/ 2010
	Regulation (EC) N.1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation Service, Authorization and Restriction of Chemicals (REACH), establishing a European Agency for chemicals, What Change 1999/45/EC and repealing Regulation (EEC) 793/93 and Council Regulation (EC) n.1488 /94 the Commission, as well as the Directive 76/769/EEC and Commission Directives 93/67/EEC, 93/105 /EC and 2000/21/EC. Regulation (EU) 453/2010 of the Commission of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and the Council. Regulation EEC / EU n ° 453 of 20/05/2010 of the Commission of 20 May 2010 amending Regulation (EC) n.1907 / 2006 of the European Parliament and the Council. Regulation EEC/EU n.1272 of 16/12/2008 "Regulation (EC) n.1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45 / EC, and amending Regulation (EC) N.1907/2006. GENERAL BIBLIOGRAPHY: 1. Regulation (EC) 1907/2006 of the European Parliament (REACH) 2. Regulation (EC) 1272/2008 of the European Parliament (CLP) 3. Regulation (EU) 2020/878 (Annex II of the REACH Regulation) 4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP) 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) 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP) 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP) 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2019/521 (XII Atp. CLP) 16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP) 17. Regulation (EU) 2019/1148 18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP) 19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP) 20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP) 21. Delegated Regulation (EU) 2021/849 (XVII 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 Agency website - Database of SDS models of chemical substances - Ministry of Health and Higher Institute of Health.

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