SAFE USE INSTRUCTIONS SHEET

Trade name :	**biosil® PT0, biosil® PT2, biosil® PT4, biosil® PT6, biosil® PT6 advanced, biosil® PT8, biosil® PT10**
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00. INTRODUCTION

The European Regulation (ER) on Chemicals No. 1907/2006 (REACH) enforced on June 1st, 2007 does only require Material Safety Data Sheet (MSDS) for hazardous substances and preparations.

DBW Advanced Fiber Technologies GmbH decides to provide our customers with the appropriate information for assuring the safe handling and use of Mineral Wool products through a **Safe Use Instructions Sheet**.

01. PRODUCT and COMPANY IDENTIFICATION

Generic Product Name:	Mineral Wool
REACH registration number:	01-2119472313-44
Trade name / Product name:	biosil® PT0, biosil® PT2, biosil® PT4, biosil® PT6, biosil® PT6 advanced, biosil® PT8, biosil® PT10
Recommended uses:	Thermal insulation an acoustic absorption (mufflers, engine compartment encapsulation)
Producer details:	DBW Advanced Fiber Technologies GmbH Rodetal 40 37120 Bovenden Germany
Contact details:	Telephone: +49-5594-801-0 Fax: +49-05594-801-74 E-Mail: info@dbw.de
Health and technical contacts:	Department R & D, Telephone +49-5594-801-11

02. HAZARDS IDENTIFICATION

With regard to its composition, this product is not classified as hazardous according to European Directive 97/69/EEC and the Regulation (EC) No 1272/2008 and their latest amendments.

Specific hazards: not applicable

03. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	C.A.S. number (1) (EC-Number)	Amount weight (%)	Classification and labelling (Regulation (CE) No 1272/2008
Man-made vitreous (silicate) fibers with random orientation with alkaline and alkali earth oxides (Na2O + K2O + CaO + MgO + BaO) content greater than 18% by weight and fulfilling one of the Nota Q conditions (1)	(926-099-9)	≥ 90 %	Not classified (2)
Synthetic thermosetting resin binder		≤ 10 %	Not classified
Mineral oil		Up to 0,5 %	Not classified

(1): C.A.S.: Chemical Abstract Service

(2): Not classified H351 “suspected of causing cancer”. Mineral fiber are not classified carcinogenic according to the Note Q of the Directive 97/69/EEC and the Regulation (EC) No 1272/2008 (Nota Q – CLP-Regulation - page 335)

Possible top layer material: glass or polyester nonwoven, aluminium foil or Kraft paper, wired mats

04. FIRST AID MEASURES

Information according to the different exposure route

Inhalation: Remove from exposition. Rinse the throat and blow nose to clear dust

Skin contact: If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap.

Eyes contact: Rinse eyes abundantly with water for at least 15 minutes

Ingestion: Drink plenty of water if accidentally ingested.

If any adverse reaction or discomfort continuous from any of the above exposure, seek medical professional advice.

05. FIRE FIGHTING MEASURES

Suitable extinguishing media

Products do not pose a fire hazard in use; however, some packaging materials or facings may be combustible.

Suitable extinguishing media: water, foam, carbon dioxide (CO2), and dry powder.

In large fires in poorly ventilated areas or involving packaging materials respiratory protection / breathing apparatus may be required.

Products of combustion from product and packaging

carbon dioxide, carbon monoxide and some trace gases such as ammonia, nitrogen oxides and volatile organic substances.

06. ACCIDENTAL RELEASE MEASURES

Personal precautions

In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.

Environmental precautions

not relevant

Methods for Clean-up

Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and residual spilled material. After vacuum cleaning, flush away with water

07. HANDLING AND STORAGE

Handling

Technical measures:	no specific measure. Use preferably a knife. If a power tool is used, it must be equipped with efficient air suction.
Precautions:	Ensure adequate ventilation of workplace. See section 8
Safe handling advice:	Avoid unnecessary handling of unwrapped product. See section 8.

Storage

Technical measures:	No specific measure, palletized products should be stored in accordance with site specific risk assessment
Suitable storage condition:	Store products removed from pallet and packaging or loose not palletized products, in a dry location
Incompatible materials:	none
Packaging material:	delivered packed in polyethylene bag carton on wooden pallet
Storage class:	Non classified

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure

Exposure Limit Value: Observe national regulations and limits. Particularly comply with the national dust limits.

Personal protective equipment

Respiratory protection: When working in unventilated area or during operations which can generate emission of any dust, wear disposable face mask. Type in accordance with EN 149 FFP1 is recommended

Hand protection: Gloves to avoid itching in conformity with EN 388

Eyes protection: Wear goggles when working overhead. Eye protection to EN 166 is advised

Skin protection: Cover exposed skin

Hygiene measures: rinse in cold water before washing

09. PHYSICAL AND CHEMICAL PROPERTIES

Physical state by 20°C: solid

Form: fibers

Colour: grey-yellow/grey-brown

Odour: light odour may occur

pH: not applicable

Boiling point: not relevant

Flash point: not relevant

Flammability: not relevant

Explosive properties: not relevant

Density (bulk): 2,7 g/cm³

Water solubility: generally chemically inert and insoluble in water.

Fat solubility: not applicable

Others information

Approx. nominal diameter of fibers: (3 – 35) µm

Orientation of fibers: random

Transformation temperature*: 654°C

Length weight geometric mean diameter less 2 standard errors:** > 6 µm

*: in accordance with DIN ISO 7884-8
**: Regulation (EC) No 1272/2008, nota R

10. STABILITY AND REACTIVITY

Stability: Binder will decompose above 200°C

Dangerous reactions: None in normal conditions of use

Hazardous decomposition products: None in normal condition of use. Decomposition of binder above 200°C may produce carbon dioxide and some trace gases. The duration of release is dependent upon the thickness of the insulation, binder content and the temperature applied

11. TOXICOLOGICAL INFORMATION

Acute effect: The mechanical effect of fibers in contact with the skin can cause a temporary itching.

Carcinogenic effect: Classification not applicable for mineral wools in this product; in accordance with the directive 97/69/EC and European Regulation 1272/2008, nota Q. (See section 15)

12. ECOLOGICAL INFORMATION

This product is not expected to causes harm to animals or plants during normal conditions of use.

13. DISPOSAL CONSIDERATIONS

Waste from residues: Dispose of in accordance with regulations and procedures in force in country of use or disposal.

Dirty packaging: dispose of in accordance with local regulations.

Code European Waste Catalogue: 17 06 04, non-hazardous

14. TRANSPORT INFORMATION

International regulations: no specific regulations

15. REGULATORY INFORMATION

The European Directive 97/69/EC replaced by the Regulation (EC) No 1272/2008 concerning the classification, labeling and packaging of the substance and the mixtures does not classify mineral fibers as hazardous, if they are in compliance with the Note Q of this Regulation. The Note Q specifies that classification as carcinogenic does not apply if:

- a short-term biopersistence test by inhalation has shown that fibers longer than 20µm have a weight half life less than 10 days, or
- a short-term biopersistence test intra-tracheal instillation has shown fibers longer than 20 µm have a weighted half life less than 40 days, or
- an appropriate intra-peritoneal test has shown no evidence of excess carcinogenicity, or
- a suitable long term inhalation test has shown absence of relevant pathogenicity or neoplastic changes.

16. OTHER INFORMATION

The mineral wool fibers of this product are exonerated from the carcinogenic classification according to the European Directive 97/69/EC and the Regulation (EC) No 1272/2008 if they fulfil one of the criteria of the Nota Q of these texts.

All products manufactured by DBW Advanced Fiber Technologies GmbH are made of non-classified fibers and are certified by RAL.

RAL Deutsches Institut für Gütesicherung und Kennzeichnung (German Institut for Quality Assurance and Certification) is the competent body for the Creation of Quality Marks – www.ral-mineralwolle.de, RAL-recognized Organizations conducting and monitoring the product quality assurance of the product. RAL is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) of the Directive 97/69/EC and the Regulation (EC) No 1272/2008.

To ensure that fibers comply with the exoneration criteria all tests and supervision procedures are carried out by independent, expert qualified institutions. RAL ensures that the producers of mineral wool have put in place selfcontrol measures.

The mineral wool producers commit to RAL to:

- supply sampling and analysis reports established by laboratories recognized by RAL,
- proving that the fibers comply with one of the four criteria of exoneration described in Note Q of the Directive 97/99/EC and the Regulation (EC) No 1272/2008,
- be controlled, twice per year, of each production unit by an independent third party recognized by RAL (sampling and conformity to the initial chemical composition),
- put in place procedures of internal self-control in each production unit.

The products corresponding to the RAL certification are recognized by the RAL logo put on the packaging.

Disclaimer

The information provided on this SUIS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.