

Page 1 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

> Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

#### ISOWOLL LOOSE BAG 10000 G

Art.: 9000529 Mineral wool Registration number (ECHA): --Index: 650-016-00-2 EINECS, ELINCS, NLP, REACH-IT List-No.: ---CAS: ---

# **1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:**

Insulating material Sector of use [SU]: SU 0 - Other SU 1 - Agriculture, forestry, fishery SU19 - Building and construction work SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Chemical product category [PC]: PC 0 - Other Uses advised against: No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### **1.4 Emergency telephone number** Emergency information services / official advisory body:

**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (BRC) +1 872 5888271 (BRC)



Page 2 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementSkin Irrit.2H315-Causes skin irritation.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



Mineral wool CAS: ---, Index:650-016-00-2

Warning

H315-Causes skin irritation.

P264-Wash hands thoroughly after handling. P280-Wear protective gloves / protective clothing. P302+P352-IF ON SKIN: Wash with plenty of water and soap. P321-Specific treatment (see first aid on this label). P332+P313-If skin irritation occurs: Get medical advice / attention. P362+P364-Take off contaminated clothing and wash it before reuse.

**2.3 Other hazards** No vPvB substance No PBT substance No substance with endocrine disrupting properties.

# **SECTION 3: Composition/information on ingredients**

3.1 Substances	
Mineral wool	
Registration number (REACH)	
Index	650-016-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	
content %	
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP), M-factors	



Page 3 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

#### 3.2 Mixtures

n.a.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### **SECTION 4: First aid measures**

4.1 Description of first aid measures First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! Inhalation On dust formation: Supply person with fresh air and consult doctor according to symptoms. Skin contact On dust formation: Wash thoroughly with soap and water. **Eve contact** On dust formation: Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Do not rub. Ingestion Typically no exposure pathway. 4.2 Most important symptoms and effects, both acute and delayed If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. 4.3 Indication of any immediate medical attention and special treatment needed n.c.

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media
Suitable extinguishing media
Adapt to the nature and extent of fire.
Product is not combustible.
Unsuitable extinguishing media
None
5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Gases hazardous to health
5.3 Advice for firefighters
For personal protective equipment see Section 8.
Protective respirator with independent air supply.
Dispose of contaminated extinction water according to official regulations.



Page 4 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

# 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products. Leave the danger zone if possible, use existing emergency plans if necessary. No special measures required. Avoid build up of dust. 6.1.2 For emergency responders See section 8 for suitable protective equipment and material specifications. **6.2** Environmental precautions No special measures required. Prevent from entering drainage system. 6.3 Methods and material for containment and cleaning up Pick up mechanically and dispose of according to Section 13. Collect spilled material with a dust-trapping sweeping agent or a suitable vacuum cleaner. 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

# **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

# 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid build up of dust.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

# Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store in a dry place.

# 7.3 Specific end use(s)

No information available at present.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

Chemical Name Mineral wool
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GB



Page 5 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

WEL-TWA: 2 fibres/ml, 5 mg/m3 (la	d WEL-STEL:		
$>= 3:1, < 6\mu m)$ (MMMF)			
Monitoring procedures:			
BMGV:		Other information:	
Chemical Name general	dust limit		Content %:
WEL-TWA: 10 mg/m3 (inhal. dust),	4 WEL-STEL:		
mg/m3 (respir. dust)			
Monitoring procedures:			
BMGV:		Other information:	
Chemical Name     Fiber du	st, inorganic		Content %:
WEL-TWA: 2 fibres/ml, 5 mg/m3 (1	U		Content /01
$>= 3:1, < 6\mu m)$ (MMMF)			
Monitoring procedures:			
BMGV:		Other information:	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

# 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.



Page 6 of 12
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0007
Replacing version dated / version: 03.07.2015 / 0006
Valid from: 01.11.2021
PDF print date: 01.11.2021
ISOWOLL LOOSE BAG 10000 G
Art.: 9000529

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Normally not necessary. On dust formation: Protective goggles (EN 166)

Skin protection - Hand protection: Recommended Leather gloves. Sensitive individuals: Protective hand cream recommended.

Skin protection - Other: Usual protective working garments

Respiratory protection: Normally not necessary. On dust formation: Fine-dust filter with Filter P2 (EN 143), code colour white.

Thermal hazards: If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Solid
Grey
Yellow
Odourless
800-1100 °C
n.a.



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Page 7 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH:

Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: **9.2 Other information** Explosives: Oxidizing solids: Not combustible. Does not apply to solids. There is no information available on this parameter. 7-8 (100 g/l, 25°C, Substance is non-soluble (in water). ) Does not apply to solids. Insoluble There is no information available on this parameter. <100 mbar (25°C) There is no information available on this parameter. Does not apply to solids.

There is no information available on this parameter. n.a.

# **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

See also Subsection 10.2 to 10.6. The product has not been tested. **10.2** Chemical stability See also Subsection 10.1 to 10.6. Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** See also Subsection 10.1 to 10.6. No decomposition if used as intended. 10.4 Conditions to avoid Strong heat **10.5 Incompatible materials** No dangerous reactions are known. **10.6 Hazardous decomposition products** See also Subsection 10.1 to 10.5. See also section 5.2 No decomposition when used as directed.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

Mineral wool						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						



Page 8 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

Acute toxicity, by		n.d.a.
inhalation:		
Skin corrosion/irritation:		Irritant
Serious eye		n.d.a.
damage/irritation:		
Respiratory or skin		n.d.a.
sensitisation:		
Germ cell mutagenicity:		n.d.a.
Carcinogenicity:		n.d.a.
Reproductive toxicity:		n.d.a.
Specific target organ		n.d.a.
toxicity - single		
exposure (STOT-SE):		
Specific target organ		n.d.a.
toxicity - repeated		
exposure (STOT-RE):		
Aspiration hazard:		n.d.a.
Symptoms:		n.d.a.

# 11.2. Information on other hazards

Mineral wool						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Endocrine disrupting						n.d.a.
properties:						
Other information:						No other
						relevant
						information
						available on
						adverse
						effects on
						health.

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

Mineral wool							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							



Page 9 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

12.3.				n.d.a.
Bioaccumulative				
potential:				
12.4. Mobility in				n.d.a.
soil:				
12.5. Results of				n.d.a.
PBT and vPvB				
assessment				
12.6. Endocrine				n.d.a.
disrupting				
properties:				
12.7. Other				n.d.a.
adverse effects:				

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no .:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

17 06 03 other insulation materials consisting of or containing hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

Ask manufacturer about possibility of returning residue.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

# For contaminated packing material

Pay attention to local and national official regulations. Recommendation: Recycling

#### **SECTION 14: Transport information**

General statements	
14.1. UN number or ID number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	



Page 10 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

14.2. UN proper shipping name:					
14.3. Transport hazard class(es):	n.a.				
14.4. Packing group:	n.a.				
Marine Pollutant:	n.a				
14.5. Environmental hazards:	Not applicable				
Transport by air (IATA)					
14.2. UN proper shipping name:					
14.3. Transport hazard class(es):	n.a.				
14.4. Packing group:	n.a.				
14.5. Environmental hazards:	Not applicable				
14.6. Special precautions for user					
Unless specified otherwise, general measures for safe transport must be followed.					
14.7. Maritime transport in bulk according to IMO instruments					
Non-dangerous material according to Transport Regulations.					

# **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with trade association/occupational health regulations.

#### 15.2 Chemical safety assessment

There is no chemical safety report available.

#### **SECTION 16: Other information**

Revised sections: 1-16 These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required. The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H315 Causes skin irritation.

Skin Irrit. — Skin irritation

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances. ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.



Page 11 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor BSEF The International Bromine Council bw body weight CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America) ErCx,  $E\mu Cx$ , ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc Kow octanol-water partition coefficient



Page 12 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0007 Replacing version dated / version: 03.07.2015 / 0006 Valid from: 01.11.2021 PDF print date: 01.11.2021 ISOWOLL LOOSE BAG 10000 G Art.: 9000529

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive IUCLID International Uniform Chemical Information Database **IUPACInternational Union for Pure Applied Chemistry** LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient LO Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available National Institute for Occupational Safety and Health (USA) NIOSH NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic org. OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic PE Polyethylene PNEC Predicted No Effect Concentration ppm parts per million PVC Polyvinylchloride REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) **REACH-IT List-No.** 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel. TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative

wwt wet weight

(GB)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.