## Safety data sheet in accordance with Regulation (EC) No 1907/2006



## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture The product does not meet the criteria for a classification as hazardous in accordance with the current version of Regulation (EC) No 1272/2008. 2.2 Label elements Hazard pictogram(s): No pictogram

Signal word(s):	No signal word
Product identifier:	Not required
Hazard statements:	Not required
Precautionary statements:	Not required
Supplemental label for certain mixtures:	Not required

#### Remark:

The product is an article. There is no requirement for the product to be specially labelled according to Regulation (EC) No 1272/2008 or the corresponding national laws.

#### 2.3 Other hazards

According to the German TRGS 905 wood dust is classified as carcinogenic Category 2 (Carc. 2: suspected human carcinogen).

Avoid absolutely formation of dust during processing and treatment. In case of release of wood dust, generation of flammable or explosive mixtures of wood dust or wood chips with atmospheric oxygen is possible.

The product is classified as low hazardous to water.

This product does not contain any substances classified as PBT/vPvB.

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	Gutenburg 5, D-79761 Waldshut-Tiengen	Revision date: 31.03.2017
	Telephone: +49-7741-6099-0	

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

gute0039

#### 3.2 Mixtures

Product number:

**REACH** registration number: The ingredients do not require registration according to Regulation (EC) No 1207/2006 [REACH] or the registration is scheduled at a later date.

- 3.2.1 Characterisation The product is a mixture. It consists of wood fibres and flame retardant based on ammonium salts of strong acids as an additive.
- 3.2.2 Substances presenting a health/environmental hazard within the meaning of Regulation (EC) No 1272/2008 The product does not contain dangerous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.
- 3.2.3 Substances for which Union workplace exposure limits have been assigned and which are not already included under point 3.2.2 (see also Section 8.)

No substances.

3.3 Additional information None.

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

4.1 Description of first aid measures 4.1.1 General information None. 4.1.2 In case of inhalation If liberated dust is inhaled, ensure supply of fresh air. In the event of symptoms take medical treatment. In case of contact with skin 4.1.3 No special measures necessary. 4.1.4 In case of contact with eyes In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In the event of symptoms consult an ophthalmologist. Remove contact lenses, if present and easy to do. Do not rub eyes, cornea damage is possible by mechanical stress. 4.1.5 In case of ingestion No first aid measures are necessary if used as intended. 4.2 Most important symptoms and effects, both acute and delayed No symptoms and effects known. 4.3 Indication of any immediate medical attention and special treatment needed None.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing me
----------------------

- 5.1.1 Suitable extinguishing media
- Water spray jet.
- 5.1.2 Unsuitable extinguishing media None.
- 5.2 Special hazards arising from the substance or mixture In the event of fire the following can be released: toxic pyrolysis products, nitrogen oxides, sulfur oxides, phosphorus oxides, carbon monoxide, carbon dioxide. 5.3 Advice for firefighters In enclosed areas use self-contained breathing apparatus.

Classification of fire reaction rating as per EN 13501-1: European Class E (flammable).

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## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.1.1 For non-emergency personnel No special measures necessary if used as intended.
  6.1.2 For emergency responders No special measures necessary if used as intended.
  6.2 Environmental precautions No special measures necessary if used as intended.
  6.3 Methods and material for containment and cleaning up Pick up mechanically. Avoid formation of dust. Use approved industrial vacuum cleaner (class M) for removal.
  6.4 Reference to other sections
- For personal protective equipment see also Section 8. For disposal considerations see also Section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### 7.1.1 Advice on safe handling

No special measures necessary if used correctly. The product is combustible.

Avoid release of dust and dust deposits during processing and treatment. In the case of formation of dust ensure local exhaust ventilation. Dust deposits that cannot be avoided must be taken up regularly.

Use approved industrial vacuum cleaner (class M) for removal.

In case of release of wood dust, comply with the protective measures in accordance with TRGS 553<sup>1</sup>. In designing the work process the model solutions of the Control Guidance Sheets 100<sup>1</sup>, 110<sup>1</sup>, 200<sup>1</sup> and 240<sup>1</sup> must be taken into consideration.

7.1.2 Advice on general occupational hygiene

#### Do not inhale dust.

- 7.2 Conditions for safe storage, including any incompatibilities
- 7.2.1 Advice on protection against fire and explosion

In case of release of wood dust, generation of flammable or explosive mixtures of wood dust or wood chips with atmospheric oxygen is possible.

Keep away from sources of ignition. Do not smoke.

Take precautionary measures against static discharges.

Annex I No 1 and article 11 of the German Ordinance on Hazardous Substances in accordance with

EC-Directive 1999/92/EC has to be observed (if wood dust has been formed in such quantities that there is a risk of dust explosion).

Application of the module "Fire & explosion" of the easy-to-use workplace control scheme for hazardous substances: Release group HIGH

In designing the work process the model solutions of the Control Guidance Sheets  $pc-270^1$  and  $pc-280^1$  must be taken into consideration in case of possible release of only small amounts of product (g-band).

In case of possible release of medium up to high amounts of product (kg- or t-band), the model solutions of the Control Guidance Sheet pc-370<sup>1</sup> must be taken into consideration.

#### 7.2.2 *Requirements for storage rooms and vessels* No special measures necessary.

7.2.3 Advice on storage compatibility

The information about joint storage given in Table 2 of TRGS 510<sup>1</sup> must be observed.

#### 7.2.4 Further information on storage conditions

- Store in a dry place.
- 7.2.5 Storage class (for Germany only)

LGK 11 (Combustible solids) in accordance with TRGS 510<sup>1</sup>.

#### 7.3 Specific end use(s)

The product is only intended for the uses mentioned under subsection 1.2.

Used as a loose-fill wood fibre insulation for blow-in installation in vertical or horizontal cavities and horizontal unenclosed spaces.

Observe technical data sheet.

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

#### 8.1 Control parameters

CAS No	Identification	Limit values	Remarks
not applicable	wood dust	Only for Germany:	
		2 mg/m <sup>3</sup> inhalable fraction	TRGS 900 (october 2000);
		technical reference concentration*	TRGS 553
		K2	TRGS 905
			National limit values – eight hours
		2 mg/m <sup>3</sup> inhalable aerosol	Austria
		TRK value	
		(based on technical feasibility)	
		3 mg/m <sup>3</sup>	Belgium
		$2 \text{ mg/m}^3$	Denmark
		2 mg/m <sup>3</sup>	Finland
		1 mg/m <sup>3</sup> (new and renovated plants)	Finland
		1 mg/m <sup>3</sup>	France
		5 mg/m <sup>3</sup>	Hungary
		5 mg/m <sup>3</sup> inhalable aerosol	Italy
		5 mg/m <sup>3</sup>	Latvia
		2 mg/m <sup>3</sup>	Sweden
			National limit values – short term
		4 mg/m <sup>3</sup>	Denmark
not applicable	softwood dust		National limit values – eight hours
		3 mg/m³	Belgium
		2 mg/m <sup>3</sup>	Denmark
		5 mg/m <sup>3</sup>	Hungary
		5 mg/m <sup>3</sup>	Ireland
		2 mg/m <sup>3</sup>	Sweden
		5 mg/m <sup>3</sup>	United Kingdom
			National limit values – short term
		4 mg/m <sup>3</sup>	Denmark

Remark: \* The technical reference concentration has not been taken as an indicative occupational exposure limit value of wood dust on the revised version of the German TRGS 900. In case of formation of dust during processing and treatment, Article 7 paragraph 9 of the German Ordinance on Hazardous Substances must be observed. This value is not in accordance with the regulations and should only be considered as a tool for undertaking a risk assessment in accordance with Article 6 of the German Ordinance on Hazardous Substances.

The methods for measuring chemical agents in workplace atmosphere must meet the general requirements of EN 481, EN 482 and EN 689.

#### 8.2 *Exposure controls*

### 8.2.1 Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See also subsection 7.1.

Any process which could generate dust must be provided with proper controls to ensure minimisation of dust nuisance (e.g. separation, enclosure, local exhaust ventilation, wetting, dust collectors).

Annex I No 1 and article 11 of the German Ordinance on Hazardous Substances in accordance with EC-Directive 1999/92/EC has to be observed (if wood dust has been formed in such quantities that there is a risk of dust explosion).

The effectiveness of suitable protective measures must be controlled.

Suitable assessment methods are described in the German TRGS 4021.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Personal protective equipment needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer/supplier of the personal protective equipment.

#### 8.2.2.1 Eye/face protection

Tightly fitting safety glasses in accordance with EN 166 (in case of dust liberation).

## 8.2.2.2 Skin protection

Hand protection:

Work gloves for protection against mechanical damage.

Body protection:

Closed work clothing.

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#### 8.2.2.3 Respiratory protection

Particle filter P2 or P3 in accordance with EN 143 (in dust-laden atmosphere).
Maximum use concentration for substances with occupational exposure limit values (OELV):
P2-filter up to max. 10 x OELV;
P3-filter up to max. 30 x OELV.
These values are only valid for Germany in accordance with the German DGUV Regel 112-190<sup>2</sup>. The limitations in wearing time according to the DGUV Regel 112-190<sup>2</sup> (rule of the German employers' liability insurance association) for the use of respirators must be observed.
8.2.2.4 Thermal hazards

## Not relevant.

**8.2.3** *Environmental exposure controls* See Section 6.

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

9.1	Information on basic physical and chemical properties	
	Physical state:	solid
	Colour:	beige
	Odour:	odourless
	Bulk density (kg/m <sup>3</sup> ):	25 - 30 (unenclosed)
		29-45 (enclosed (cavities))
	Vapour diffusion factor:	1/2
	Nominal thermal conductivity $\lambda_D$ (W/mK):	0.039
	Thermal conductivity (applied) $\lambda$ (W/mK):	0.040
	Air flow resistivity (kPa $\cdot$ s/m <sup>3</sup> ):	$\geq$ 5
	Specific heat capacity (J/kgK):	2100
9.2	Other information	
	None.	

## **SECTION 10: Stability and reactivity**

10.1	Reactivity
	No data available for the product.
10.2	Chemical stability
	The product is stable under normal ambient and anticipated storage and handling conditions of temperature
	and pressure.
10.3	Possibility of hazardous reactions
	When used as intended, no hazardous reaction known.
10.4	Conditions to avoid
	The flame retardant decomposes in case of intense heating-up.
10.5	Incompatible materials
	No particular materials known.
10.6	Hazardous decomposition products
	No hazardous decomposition products known.
	For hazardous combustion products see subsection 5.2.

## **SECTION 11: Toxicological information**

11.1	Information on toxicological effects			
	No data are available for the p	roduct.		
11.1.1	Acute toxicity			
	LD50 rat, oral	(mg/kg)	No data available.	
	LD50 rat, dermal	(mg/kg)	No data available.	
	LC50 rat, inhalation	(mg/l/4h)	No data available.	
11.1.2	Skin corrosion/irritation			
	No data available.			
11.1.3	Serious eye damage/irritation			
	No data available.			

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11.1.4 Respiratory of	or skin considication	
	vailable about sensitising properties of the product.	
11.1.5 Germ cell mi		
	loes not contain substances classified as germ cell mutagens.	
11.1.6 Carcinogenic	с с	
	the German TRGS 905 wood dust is classified as carcinogenic Cat	tegory 2 (Carc 2: suspected human
carcinogen).	the German Treas 705 wood dust is enastined as eareningenie ear	legory 2 (Care. 2. suspected numan
11.1.7 Reproductive	toxicity	
-	loes not contain substances classified as toxic for the reproduction.	
	et organ toxicity (STOT)-single exposure	
	loes not contain substances classified as being a specific target orga	an toxicant after single exposure.
	et organ toxicity (STOT)-repeated exposure	
	loes not contain substances classified as being a specific target orga	an toxicant after repeated exposure.
11.1.10 Aspiration h		
1	loes not contain aspiration toxicants.	
	lated to the physical, chemical and toxicological characteristics	
	s an article in accordance with Article 2 of Regulation (EC) No 12'	72/2008 and this means an object
	production is given a special shape, surface or design which deterr	
0	chemical composition.	6 6
	ossible exposure only in case of liberation of dust during processing	g and treatment.
	immediate effects as well as chronic effects from short and long-t	
	s an article in accordance with Article 2 of Regulation (EC) No 12'	
	production is given a special shape, surface or design which deterr	
	chemical composition.	5 5
	•	

Inhalation: possible exposure only in case of liberation of dust during processing and treatment.

## **SECTION 12:** Ecological information

12.1	Toxicity		
	Aquatic toxicity:		
	LC50	(fish)	No data available.
	EC50	(daphnia)	No data available.
	IC50	(algae)	No data available.
	Behaviour in	sewage works:	
	The behaviou	r of the product in sewage treatment plan	nts has not been tested.
12.2	Persistence at	nd degradability	
	The product h	has not been tested.	
	Chemical oxy	gen demand (COD)	No data available.
	Biochemical oxygen demand (BOD5)		No data available.
	AOX-hint		Not to apply.
12.3	Bioaccumula	tive potential	
	The product has not been tested.		
12.4	Mobility in soil		
	The product h	has not been tested.	
12.5	Results of PBT and vPvB assessment		
	This product does not contain any substances classified as PBT/vPvB.		
12.6	Other adverse effects		
	Ozone depleti	ion potential	No data available.
	Photochemica	al ozone creation potential	No data available.
	Global warmi	ng potential	No data available.
	The product is classified as low hazardous to water.		
	Contains according to the formulation following compounds of directives 2006/11/EC and 80/68/EEC:		
	None.	_	

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Produc	t number:	gute0039			
SEC	TION 13: ]	Disposal consid	lerations		
13.1	Waste treatm				
		Waste disposal according to official state regulations.			
		cal waste disposal ex			
			erations according	to Directive 2008/98/EC	
	Disposal oper	ations:	D 10	Incineration on land	
	Recovery ope	rations:	R 1	Use principally as a f	uel or other means to generate
				energy	
		waste which rende	r it hazardous in a	ccordance with Annex III of	f Directive 2008/98/EC
	Not relevant.				
13.1.1	Product / unused product				
	Waste disposal corresponding to European Waste Catalogue. Wastes must be classified with respect to their origin				
		nd depending on different processing steps. The waste codes mentioned as follows are only constituted as our			
	recommendat	endations. Referring to the particular case they should be completed or revised.			
	EC waste cod	e:	03 01 05		
	Waste notatio	n:	Sawdust, shav	ings, cuttings, wood, particle	board and veneer other than those
			mentioned in (	03 01 04	
	Alternative:				
	EC waste cod	e:	17 02 01		
	Waste notatio	n:	Wood		
13.1.2	Contaminated	l packaging			
	Recommenda	tion:	Contaminated	packaging should be emptied	as far as possible and after
			appropriate cle	eansing may be taken for reus	e.
	Recommende	d cleansing agent:	Remove adher	ing residues mechanically.	
	Packaging that	t cannot be cleaned:		c ·	
	EC waste cod		15 01 02		
	Waste notatio	n:	Plastic packag	ing	
13.2	Classification	in accordance with	the German Waste	Wood Ordinance (for Germ	anv only)

# **SECTION 14: Transport information**

14.1	<i>UN number</i> No dangerous good in accordance with the UN Model Regulations (ADR/RID/ADN/IMDG/ICAO/IATA).
14.2	UN proper shipping name Not relevant.
14.3	Transport hazard class(es)
	Not relevant.
14.4	Packing group
	Not relevant.
14.5	Environmental hazards
	Not relevant.
14.6	Special precautions for user
	Not relevant.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code
	Not relevant.

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## **SECTION 15: Regulatory information**

#### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 15.1.1 Information regarding relevant Union safety, health and environmental provisions Regulation (EC) No 1907/2006: Annex V(8) (wood) (exemptions from the obligation to register) In case of formation of wood dust in such quantities that there is a risk of dust explosion: Directive 94/9/EC and Directive 1999/92/EC have to be observed. 15.1.2 Information regarding national laws/national measures that may be relevant (for Germany only) Indications on restriction of occupation: Not relevant Major-accident Regulation: Not relevant Fire and explosion hazards: Annex I No 1 and article 11 of the Ordinance on Hazardous Substances in accordance with Directive 1999/92/EC has to be observed (if wood dust has been formed in such quantities that there is a risk of dust explosion). Not relevant Regulation on clean air (TA Luft): Water hazard class: WGK 1 - low hazardous to water (calculation according to KBwS)<sup>3</sup> The Federal State Enactment for Facilities to Handle Water Endangering Substances (German VAwS-Anlagen-Verordnung) has to be observed.3 German Ordinance on Hazardous Substances (in accordance with EC-Directive 98/24/EC): Article 6 must be observed. In case of liberation of wood dust during processing and treatment: German Ordinance on Hazardous Substances (in accordance with EC-Directive 98/24/EC): Articles 7, 8, 9, 14, Annex I No 2 Regulation on Occupational Medical Prevention (ArbMedVV): Annex, Part 1 (1): Obligatory prophylaxis: The employer shall arrange occupational medical prophylaxis for workers conducting activities with exposure to inhalable dust, if the occupational exposure limit value is exceeded. Annex, Part 1 (2): Prophylaxis offer: For activities involving inhalable dust occupational medical prevention has to be offered. Technical Rules for Hazardous Substances1: TRGS 400, 402, 500, 510, 553, 555, 720, 721, 722, 800, 905 TRBS 2152, 2152 Part 1, 2152 Part 2, 2152 Part 3, Technical Rules for Industrial Safety1: 2152 Part 4, 2153 Rules of the employers' liability insurance association<sup>2</sup>: DGUV Regel 113-001, 112-190, 112-192 Informations of the employers' liability insurance association<sup>2</sup>: DGUV Information 250-403, 209-044, 209-045 Classification in accordance with the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2.2, 2014<sup>4</sup>: inhalation: hazard group A (in case of release of wood dust, the protective measures in accordance with TRGS 5531 should be applied preferably) Classification in accordance with the module "Fire & explosion" of the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2016<sup>5</sup>: fire and explosion: hazard group pc-C

#### **15.2** Chemical safety assessment

No chemical safety assessment has been carried out for a substance in the product.

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## **SECTION 16: Other information**

16.1	Keeping (restrie	ctions)	Not relevant		
	Supply	,	to industry consumer, for the general public		
16.2	Full text of the	hazard statements referred to under subsect	tion 2.1 and point 3.2.2 of the Safety Data Sheet		
	Not to apply.				
16.3	Key to abbreviations and acronyms used in the safety data sheet				
	ADN:	Accord européen relatif au transport intern navigation intérieure	européen relatif au transport international des marchandises dangereuses par voie de on intérieure		
	ADR:	Accord européen relatif au transport international des marchandises dangereuses par route			
	AOX:	adsorbable organically bound halogens	ble organically bound halogens		
	ICAO/IATA:	International Civil Aviation Organisation/International Air Transport Association-Dangerous Goods Regulations			
	IMDG-Code:	International Maritime Dangerous Goods-Code			
	KBwS:	Commission for the Evaluation of substances hazardous to waters (Kommission Bewertung wassergefährdende Stoffe)			
	LGK:	Lagerklasse (storage class)			
	PBT:	persistent, bioaccumulative and toxic			
	RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer			
	TRBS:	Technische Regeln für Betriebssicherheit (Technical Rules for Industrial Safety)			
	TRGS:	Technische Regeln für Gefahrstoffe (Techn	echnische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)		
	vPvB:	very persistent and very bioaccumulative			
16.4	Literature references and sources for data				
	<sup>1</sup> <u>http://www.baua.de</u>				
	<sup>2</sup> <u>http://www.arbeitssicherheit.de</u>				
	<sup>3</sup> <u>http://www.umweltbundesamt.de</u>				
	<sup>4</sup> <u>http://www.baua.de/emkg</u>				
	<sup>5</sup> http://www.baua.de/de/Publikationen/Fachbeitraege/Gd65.html				
16.5 Method used for the classification of the mixture					
	The product is an article. There is no requirement for the product to be specially labelled according to				
	Regulation (EC) No 1272/2008 or the corresponding national laws.				
16.6	Changes which	Changes which have been made to the previous version of the safety data sheet			
	Revised section	is: 2.3, 3.2.1, 5.2, 7.2.1, 8.1, 10.4, 15.1.2, 15.2, formal changes to	11.1, 11.1.1 to 11.1.12, 12.2, 12.6, 12.7 (deleted), the headings of all sections		

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Compiled by:

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