

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 1/10 -

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING


1.1	Product identifier	
	Product name:	GdBCO powder
	Registration number:	not required, the product is a mixture, not a compound
	Other means of identification:	not set
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified uses:	superconductor / raw material
	Uses advised against:	not set
1.3	Details of the supplier of the safety data sheet	
	Distributor: <i>(responsible for marketing)</i>	CAN SUPERCONDUCTORS, s.r.o. Ringhofferova 66 CZ-251 68 Kamenice Czech Republic tel. +420 323 619 695 fax +420 323 619 697 e-mail: info@can-superconductors.com web: www.can-superconductors.com
	Competent person responsible for the safety data sheet: PharmDr. Vladimír Věgh, PHARMIS, info@pharmis.cz	
1.4	Emergency telephone number	
	Giftnotruf München, Toxikologische Abteilung der II, Medizinischen Klinik rechts der Isar der TU, Ismaninger Str. 22 Munich 81675, +49 89 4140 2466, +49 89 4140 2467, +49 89 192 40, tox@lrz.tum.de , www.toxinfo.org , 24h-non-stop	

SECTION 2: HAZARDS IDENTIFICATION

General classification of the mixture: the mixture is classified as hazardous in compliance with Regulation (EC) No 1272/2008.

	Important health effects:	Causes serious eye irritation. Causes skin irritation. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting and mild non-allergic damage. Inhalation of dust / solid aerosols can cause respiratory tract irritation. Swallowing of larger amounts may lead to stomachache, vomiting or diarrhea and other gastrointestinal problems.	
	Important environmental effects:	The mixture is no classified as hazardous for the environment. Not expected to be hazardous for the environment under normal condition of use. However, except intended use the mixture should not enter environment or sewage waters.	
2.1	Classification of the substance or mixture		
	Classification in accordance with 1272/2008/EC:	Skin Irrit. 2 H315	Skin corrosion/irritation, category 2 Causes skin irritation.
		Eye Irrit. 2 H319	Serious eye damage/eye irritation; category 2 Causes serious eye irritation.
		STOT SE 3 H335	Specific target organ toxicity - single exposure May cause respiratory irritation.

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 2/10 -

2.2	Label elements			
	Contains:	not required		
	Hazard pictograms:			
	Signal word:	WARNING		
	Hazard statements:	H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	
	Supplemental hazard information:	not required		
	Supplemental label elements for certain mixtures:	not required		
	Precautionary statements:	P101 P102 P261 P280 P302+P352 P305+P351+P338 P337+P313 P501	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/eye protection. IF ON SKIN: Wash with plenty of water and soap. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Dispose of contents/container to authorized facility for dangerous wastes.	
	Other required labeling:	not required		

2.3	Other hazards
	Results of PBT and vPvB assessment: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; no substance in the amount of $\geq 0,1$ %, is included in the Candidate List of the substances of very high concerns (SVHC).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of metal oxides / superconductive ceramic.

3.1	Substances
	does not apply
3.2	Mixtures
	Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List:

Substance <i>REACH Registration number</i>	Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*	Exposure limits
GdBa ₂ Cu ₃ O ₇ <i>REACH No. not available yet</i>	< 95	- - -	Eye Irrit. 2 Skin Irrit. 2 STOT SE 3 H319 H315 H335	-
Gd ₂ BaCuO ₅ <i>REACH No. not available yet</i>	< 60	- - -	Eye Irrit. 2 Skin Irrit. 2 STOT SE 3 H319 H315 H335	-
copper oxide <i>REACH No. not available yet</i>	< 25	215-269-1 1317-38-0 -	Aquatic Acute 1 ** H400	-

* For full wording of used classification abbreviations and Hazard Statements (H-phrases) see Section 16.
** as the final mixture is not soluble in water, environmental exposure is not expected

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 3/10 -

SECTION 4: FIRST AID MEASURES

4.1	Description of first aid measures	Observe all user considerations and safety measures stated on the packaging. In case of any health problem or uncertainty seek medical attention and provide information from this Material Safety Data Sheet. Unconscious persons place in the stabilized position and observe the breathing. Never give any fluids to unconscious persons.
	Inhalation:	No acute adverse health effects are expected upon inhalation. When unexpected problems upon aerosols / dust inhalation appear, remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
	Skin contact:	Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water. Use appropriate regenerating cream. Seek medical advice if the skin irritation persists.
	Eye contact:	Keep eyelids open and rinse immediately and repeatedly with copious amount of water for at least 10 - 15 minutes. Remove contact lenses, if present and easy to do. Seek medical advice (preferable an ophthalmologist) if the eye irritation persists.
	Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting! In case of spontaneous vomiting avoid aspiration of the vomits. Get medical attention immediately and show product package or label!
4.2	Most important symptoms and effects, both acute and delayed	Causes serious eye irritation. Causes skin irritation. Inhalation of dust can cause mild and temporary respiratory tract irritation. Swallowing of larger amounts may lead to stomachache, vomiting or diarrhea and other gastrointestinal problems. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease.
4.3	Indication of any immediate medical attention and special treatment needed	No specific therapy known. Use supporting and symptomatic treatment. Be careful when the affected person is vomiting and during gastric lavage.

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media	
	Suitable extinguishing media:	water spray, foam, dry-powder, carbon dioxide
	Unsuitable extinguishing media:	direct water stream
5.2	Special hazards arising from the substance or mixture	Non-flammable. No special risks are expected.
5.3	Advice for fire-fighters	<p><u>Fire Fighting Procedures:</u> Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard.</p> <p><u>Special Protective Equipment for Firefighters:</u> Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.</p>

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 4/10 -

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	<p>Personal precautions, protective equipment and emergency procedures Observe all user considerations and safety measures. Avoid contact with skin, eyes and mucous membranes. See Section 8 for advice on the minimum requirements for personal protective equipment. All unprotected persons should be restraint. All unprotected persons should be restraint. Avoid dust formation. Ensure adequate ventilation in closed areas. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.</p>
6.2	<p>Environmental precautions Stop leak if you can do so without risk. Confine the spill immediately with booms. Avoid entering soil, surface- and ground-waters, drains, cellars or other closed rooms. In case of serious leakage inform appropriate authorities.</p>
6.3	<p>Methods and materials for containment and cleaning up Carefully wipe mechanically. Avoid dust formation. Dispose according to valid legislation (see Section 13); send to dangerous wastes treatment facility. Keep in suitable, closed containers for disposal. All containers with waste should be appropriately labeled. Clean up affected areas with water and detergent.</p>
6.4	<p>Reference to other sections Adhere to instructions in the section 8 and 13.</p>

SECTION 7: HANDLING AND STORAGE

7.1	<p>Precautions for safe handling Avoid contact with skin, eyes and mucous membranes. Avoid dust inhalation. See Section 8 for advice on the minimum requirements for personal protective equipment. Use only with adequate ventilation. Observe all user considerations, safety measures and exposure limits. Do not eat, drink or smoke when manipulating with the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Ensure appropriate ventilation during handling in interiors.</p>
7.2	<p>Conditions for safe storage, including any incompatibilities Store in tightly closed original packages or in appropriately labelled replacement containers. Store in dry, banded areas, protected from weather conditions. Keep out of the reach of children. Keep away from food, beverages and forage.</p>
7.3	<p>Specific end uses plant growth stimulator</p>

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
	Exposure limits (Czech Republic, Government Regulation No. 361/2007 Coll.): not se	
	<i>CAS</i>	<i>Substance name</i>
	-	-
	<i>NPEL</i>	
	-	
	Indicative biological limits: not set	
	Indicative occupational exposure limit ES (2000/39/EC, Directive 2006/15/EC and Directive 2009/161/EC): not set	
	<i>CAS</i>	<i>Substance name</i>
	-	-
	<i>OEL</i>	
	-	
	Other recommended values: not se	
	<i>CAS</i>	<i>Substance name</i>
	-	-
	<i>OEL - equivalents</i>	
	-	
	DNEL: not set	

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 5/10 -

	PNEC: not set
8.2	<p>Exposure controls</p> <p><u>Appropriate engineering controls:</u> Avoid contact with skin, eyes and mucous membranes. Ensure adequate ventilation. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Storage and manipulation areas should be equipped with emergency eye wash (EN 15154-1). Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Avoid dust inhalation. Adequate ventilation and cleanup must be maintained to minimize dust accumulation / throw-up. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.</p> <p><u>Individual protection measures, such as personal protective equipment:</u></p> <p>a) Eye / face protection Avoid contact with eyes. If dust formation likely to occur (e.g. refilling), wear safety glasses with side-shields or full face shield (EN 166).</p> <p>b) Skin protection: Wear appropriate rubber gloves (EN 374-1) resistant against chemicals and appropriate protective clothes and boots (EN ISO 20345). Recommended gloves material: butyl rubber, nitril rubber 0,7 mm, polyethylene, neoprene. Breakthrough time min. 240 min. (EN 374-1) for long-term work, min. 120 min. for short-term contact. Because of the lack of specific tests, the breakthrough time should be twice the expected contact time. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves.</p> <p><u>Note:</u> Glove suitability and breakthrough time will differ depending on the specific use conditions, such as other chemicals, physical factors (risk of cutting / tearing, thermal damage). Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves.</p> <p>c) Respiratory protection: Not expected under general / typical use. Do not inhale dusts. Ensure appropriate ventilation or exhaustion at the workplace. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: half-face particle filter respirator, type P2 (European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 (STN EN 14387+A1) provide filter recommendations).</p> <p>For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.</p> <p>d) Thermal hazards: No such risk when normally used.</p> <p><u>Environmental exposure controls:</u> Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. All storage and manipulation are have to be equipped for the sanitation of possible leakage. See information in sections 6 and 12.</p>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties		
	Properties	value	method / condition
	Appearance:	powder	20°C
	Colour:	black	-
	Odour:	without any odour	-

Name of the product	GdBCO powder			Page: - 6/10 -
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces: -	

Odour threshold:	information not available	-
pH:	information not available	-
Melting point/freezing point:	1070°C	-
Initial boiling point and boiling range:	information not available	-
Flash point:	information not available	-
Evaporation rate:	information not available	-
Flammability (solid, gas)	information not available	-
Upper/lower flammability or explosive limits:	information not available	-
Vapour pressure:	information not available	-
Vapour density:	information not available	-
Density:	information not available	-
Solubility/ies:	insoluble in water insoluble in organic solvents soluble in nitric acid	water, 20°C
Partition coefficient: n-octanol/water:	information not available	-
Auto-ignition temperature:	information not available	-
Decomposition temperature:	information not available	-
Relative viscosity:	information not available	-
Explosive properties:	not explosive	-
Oxidising properties:	no oxidative properties	-
9.2 Other information		
-	-	-

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity No specific test data related to reactivity available for this product or its ingredients. Not reactive under normal conditions.
10.2	Chemical stability Mixture is chemically stable under normal conditions.
10.3	Possibility of hazardous reactions Not known.
10.4	Conditions to avoid Stable under normal conditions.
10.5	Incompatible materials Not known.
10.6	Hazardous decomposition products Material does not decompose at ambient temperatures. No hazardous decomposition products are expected.

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 7/10 -

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects The mixture was not toxicologically tested; classification is based on conventional calculation classification methods.
a)	<i>Acute toxicity</i> Based on available data, the classification criteria are not met. No toxicology data for the mixture. Based on the composition the mixture has low acute toxicity. Swallowing of larger amounts may lead to stomachache, vomiting or diarrhea.
b)	<i>Skin corrosion/irritation</i> Causes skin irritation. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).
c)	<i>Serious eye damage/irritation</i> Causes serious eye irritation upon direct contact.
d)	<i>Respiratory or skin sensitisation</i> Based on available data, the classification criteria are not met. Compounds do not have known sensitizing potential.
e)	<i>Germ cell mutagenicity</i> Based on available data, the classification criteria are not met. Compounds have no potential for mutagenicity.
f)	<i>Carcinogenicity</i> Based on available data, the classification criteria are not met. Compounds have no potential for carcinogenicity.
g)	<i>Reproductive toxicity</i> Based on available data, the classification criteria are not met. Compounds have no potential for reproductive toxicity.
h)	<i>STOT-single exposure</i> May cause respiratory irritation. Inhalation of loosened dust can mechanically irritate airways.
i)	<i>STOT-repeated exposure</i> Based on available data, the classification criteria are not met. Not expected to cause specific damage from prolonged or repeated exposure. <i>Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has led to hemolytic anemia and accelerates arteriosclerosis.</i>
j)	<i>Aspiration hazard</i> Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

	As the final mixture is not soluble in water, environmental exposure is not expected. The mixture was not ecotoxicologically tested; classification is based on conventional calculation classification methods. Information on toxic effects is based on the effects of compounds.
12.1	Toxicity No experimental data for the mixture. Based on the composition and conventional calculation classification methods the mixture is not classified as hazardous for environment.
12.2	Persistence and degradability Information for mixture not available. Inorganic substance, not soluble in water.
12.3	Bioaccumulative potential Information for mixture not available. As the final mixture is not soluble in water, bioaccumulative potential of compounds is low.
12.4	Mobility in soil No data for the mixture. Because of physical status and insolubility in water not expected to be mobile in soil.

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 8/10 -

12.5	Results of PBT and vPvB assessment The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; no substance in the amount of $\geq 0,1$ %, is included in the Candidate List of the substances of very high concerns (SVHC).
12.6	Other adverse effects Not known. In usual amount the mixture does not affect biological processes in sewage treatment plants.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<p>Waste treatment methods entering soil, drains, surface- and ground-waters. Product and packages should be disposed in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use.</p> <p><u>Proposed waste classification:</u> Dangerous waste according to 2008/98/EC.</p> <p>06 03 wastes from the MFSU of salts and their solutions and metallic oxides Waste type name: metallic oxides containing heavy metals Waste catalog code: 06 03 15 Hazardous waste: yes</p> <hr/> <p><u>Contaminated packages:</u> Can be recycled when thoroughly emptied. Not dangerous waste according to 2008/98/EC.</p> <p>15 01 Packaging (including separately collected municipal packaging waste) Waste type name: Plastic packaging Waste Catalog code for empty package: 15 01 02 Hazardous waste: no</p>
-------------	---

SECTION 14: TRANSPORT INFORMATION

The mixture is not classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.				
14.1	UN Number: -			
14.2	UN proper shipping name			
	<i>Road transport ADR</i>	<i>Rail transport RID</i>	<i>International maritime transport IMDG</i>	<i>Air transport ICAO/IATA</i>
	-	-	-	-
14.3	Transport hazard class(es)			
	<i>Road transport ADR</i>	<i>Rail transport RID</i>	<i>International maritime transport IMDG</i>	<i>Air transport ICAO/IATA</i>
	-	-	-	-
	Classification code			
	-	-	-	-
	Hazard identification number (Kemler)			
	-	-	-	-
	Labels			
	-	-	-	-
14.4	Packing group			
	<i>Road transport ADR</i>	<i>Rail transport RID</i>	<i>International maritime transport IMDG</i>	<i>Air transport ICAO/IATA</i>
	-	-	-	-

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 9/10 -

14.5	Environmental hazards: no
14.6	Special precautions for user: not required
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code: not transported

SECTION 15: REGULATORY INFORMATION

15.1	<p>Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p><u>Relevant legislation of European Union:</u></p> <ul style="list-style-type: none"> - Regulation (EC) No 1907/2006 of the European Parliament and of the , concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 - Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) - Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations - Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances - Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC - Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC - Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations
-------------	---

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

<i>Designation of the substance, of the group of substances or of the mixture</i>	<i>Conditions of restriction</i>
GdBa ₂ Cu ₃ O ₇ <i>REACH No. not available yet</i>	Regulation EC 1907/2006, Annex XVII, Article 3
copper oxide <i>REACH No. not available yet</i>	Regulation EC 1907/2006, Annex XVII, Article 3

15.2	<p>Chemical safety assessment</p> <p>Chemical safety assessment not carried yet</p>
-------------	--

SECTION 16: OTHER INFORMATION

<i>a)</i>	<i>Changes made to the previous version of the safety data sheet</i> Not relevant – the first issue, version 1.0.																		
<i>b)</i>	<p><i>Key or legend to abbreviations and acronyms used in the safety data sheet</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">Eye Irrit. 2</td> <td>Serious eye damage/eye irritation, category 2</td> </tr> <tr> <td>Skin Irrit. 2</td> <td>Skin corrosion/irritation, category 2</td> </tr> <tr> <td>STOT SE 3</td> <td>Specific target organ toxicity - single exposure</td> </tr> <tr> <td>Aquatic Acute 1</td> <td>Hazardous to the aquatic environment, category 1</td> </tr> <tr> <td>Exp. lim.</td> <td>Exposure limit</td> </tr> <tr> <td>PEL</td> <td>Permissible exposure limit - long term (8 h) (<i>Czech Republic</i>)</td> </tr> <tr> <td>NPEL-P</td> <td>The highest permissible exposure limit - short term (15 min) (<i>Czech Republic</i>)</td> </tr> <tr> <td>OEL</td> <td>Occupational exposure limit</td> </tr> <tr> <td>PBT</td> <td>Substances persistent, bioaccumulative and toxic</td> </tr> </table>	Eye Irrit. 2	Serious eye damage/eye irritation, category 2	Skin Irrit. 2	Skin corrosion/irritation, category 2	STOT SE 3	Specific target organ toxicity - single exposure	Aquatic Acute 1	Hazardous to the aquatic environment, category 1	Exp. lim.	Exposure limit	PEL	Permissible exposure limit - long term (8 h) (<i>Czech Republic</i>)	NPEL-P	The highest permissible exposure limit - short term (15 min) (<i>Czech Republic</i>)	OEL	Occupational exposure limit	PBT	Substances persistent, bioaccumulative and toxic
Eye Irrit. 2	Serious eye damage/eye irritation, category 2																		
Skin Irrit. 2	Skin corrosion/irritation, category 2																		
STOT SE 3	Specific target organ toxicity - single exposure																		
Aquatic Acute 1	Hazardous to the aquatic environment, category 1																		
Exp. lim.	Exposure limit																		
PEL	Permissible exposure limit - long term (8 h) (<i>Czech Republic</i>)																		
NPEL-P	The highest permissible exposure limit - short term (15 min) (<i>Czech Republic</i>)																		
OEL	Occupational exposure limit																		
PBT	Substances persistent, bioaccumulative and toxic																		

Name of the product	GdBCO powder			Page:
Date of compilation/revision	1. 8. 2016	version: 1.0	Replaces:	- 10/10 -

	vPvB	Substances very persistent and very bioaccumulative
	VOC	Volatile organic compound
	DNEL	Derived No Effect Level
	PNEC	Predicted No Effect Concentration
	LD50	Median lethal Dose
	LC50	Median lethal concentration
	EC50	Half maximal effective concentration
	IC50	Half maximal inhibitory concentration
	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
	RID	International Rule for Transport of Dangerous Substances by Railway
	IMDG	International Maritime Dangerous Goods Code
	ICAO	International Civil Aviation Organization
	IATA	International Air Transport Association
c)	<i>Key literature references and sources for data</i> Original information on the formulation from the manufacturer.	
d)	<i>Methods of evaluating information used for the purpose of classification</i> The mixture was classified by expert judgment and conventional calculations methods in accordance with the Regulation EC No. 1272/2008 (CLP).	
e)	<i>Full wording of used Hazard Statements (H-phrases)</i> H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H400 Very toxic to aquatic life.	
f)	<i>Advice on any training appropriate for workers</i> Before handling, storing or using the present substance for the first time, employees must be informed - common training for handling chemicals, occupational safety training. SAFETY DATA SHEET should always be available for workers at hand.	
g)	<i>Other information</i> This Safety Data Sheet is compiled in accordance with Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830; Safety Data Sheet contains information on safety use, occupational health protection, and environmental protection. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. This particular information apply on the product as supplied and may not be valid in mixtures with other substances. If used for other purposes as identified in this SDS, the distributor is not liable for any damage. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned. Compiled: PharmDr. Vladimír Věgh, PHARMIS. www.pharmis.cz	