



# MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

Product Name: **EXCELLO®-Basis**

Printing date: 16.05.2012

revised on: 16.05.2012

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<b>1. Identification of the Substance / Preparation and the Company</b>		
1.1	Application of the preparation: Product name:	Micronutrient long-term fertilizer (Depot fertilizer) <b>EXCELLO-Basis</b>
1.2	Company:	JOST GmbH Giesestr. 4 58636 Iserlohn, GERMANY
	Phone	+49 [0] 2371 94 85-23
	Fax	+49 [0] 2371 94 85 35
	<b>Emergency telephone number</b>	+49 [0] 228 19 240 University Hospital Bonn Information Center against Acute Poisoning
<b>2. Hazards Identification</b>		
	Main hazards	No significant hazard according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive
<b>3. Composition / Information on ingredients</b>		
3.1	Chemical characterization:	Mixture of metal oxides and metal alloys of copper, zinc, manganese, iron, molybdenum, cobalt. Calcium borate, calcium magnesium carbonate.
3.1.1	Description:	Grey granulars of 1 – 4.5 mm particle size
3.1.2	CAS-No.:	Not available
<b>4. First Aid Measures</b>		
4.1	Skin contact:	Remove contaminated clothing. Wash off immediately with plenty of water and soap. Seek medical treatment in the case of skin irritation. Wash clothing before further use.
4.2	Eye contact:	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical assistance if irritation or symptoms persist.
4.3	Inhalation:	May cause irritation to mucous membranes. Move the exposed person to fresh air. Rinse mouth with clear water. Seek medical treatment in case of persisting symptoms.
4.4	Ingestion	May cause irritation to mucous membranes. Do not induce vomiting! Rinse mouth, give water to drink. Seek medical attention if irritation or symptoms persist.
<b>5. Fire Fighting Measures</b>		
5.1	Extinguishing media:	All - non-inflammable.
5.2	Fire hazards	Burning produces irritating, toxic and obnoxious fumes
5.3.	Protective equipment	Use self-contained respiratory equipment
<b>6. Accidental Release Measures</b>		
6.1	Personal precautions:	For personal protection see Section 8 below
6.2	Environmental precautions:	Do not allow product to enter drains. Collect in clean container for re-use (preferred) or disposal.
6.3	Measures for cleaning up:	Sweep up, avoid formation of dust.
<b>7. Handling and Storage</b>		
7.1	<b>Handling:</b>	Avoid contact with eyes and skin. The precautionary measures usual while handling chemicals are to be considered.
7.2	<b>Storage:</b>	Keep in a cool, dry, well ventilated area. Store in closed

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7.2.2	Storage classification (VCI concept)	original packaging, separately from the reach of children and domestic animals as well as from food. 13 (non-flammable solid matter)
<b>8.</b>	<b><u>Exposure Controls / Personal protection</u></b>	
8.1	Engineering controls:	No exposition limits specified
8.2	<b>Personal protection:</b>	
8.2.1	Respiratory:	In case of dust formation use dust mask. General dust exposure limit of 10 mg/m <sup>3</sup> has to be respected.
8.2.2	Hand:	Wear suitable protective gloves (PVC).
8.2.3	Eye:	The usual precautions for handling chemicals should be observed. Use protective goggles during dust formation.
8.2.4	Skin and Body:	Consider usual preventive measures while handling fertilizers or chemicals. Wear protective clothing
8.3.5	General protective and hygienic measures:	Do not eat, drink, smoke while working.
8.4	Additional information about design of technical facilities:	No specific suggestions.
<b>9.</b>	<b><u>Physical and Chemical Properties</u></b>	
9.1	<b><u>General Information</u></b>	
9.1.1	Form:	Granulars of 1 – 4.5 mm particle size
9.1.2	Colour:	Grey
9.1.3	Odour:	Odourless
9.2	<b><u>Sicherheitsrelevante Daten</u></b>	
9.2.1	Change in condition:	Not relevant
9.2.2	Flash point:	Not relevant
9.2.4	Danger of explosion:	Not relevant
9.2.5	Vapour pressure:	Not relevant
9.2.7	Bulk density:	1,200 kg/m <sup>3</sup>
9.2.8	Solubility in / Miscibility with water: (20°C):	Widely insoluble
9.2.9	pH-value: (50 g/l H <sub>2</sub> O at 20°C):	Not determined
<b>10.</b>	<b><u>Stability and Reactivity</u></b>	
10.1	Conditions to be avoided:	None known
	Stability:	Stable under normal conditions.
10.2	Hazardous decomposition products:	None known
10.3	Dangerous reactions:	None known
<b>11.</b>	<b><u>Toxicological Information</u></b>	
11.1	Toxicological tests:	No experimental toxicological data on this product as such available.
11.1.1	Acute toxicity:	No data available on this product.
11.1.2	Primary irritant effect on skin or on eye:	No data available on this product.
11.1.3	Additional toxicological information:	From structurally related products may be expected: Only moderately toxic for humans and animal
<b>12.</b>	<b><u>Ecological Information</u></b>	
12.1	General notes:	Content materials are essential plant nutrients.
12.2	Ecotoxicity:	No data available on this product.
<b>13.</b>	<b><u>Disposal Considerations</u></b>	
13.1	Product:	May be deposited considering the local regulations or used as fertilizer in agriculture and horticulture.
13.2	Contaminated packaging:	No specific recommendations.
<b>14.</b>	<b><u>Transport Information</u></b>	
14.1	Land transport ADR/RID and GGVS/GGVE (cross border/domestic):	Product not classified as dangerous for carriage
14.3	Sea transport IMO/IMDG-code:	Not restricted
14.4	Air transport ICAO-TI and IATA-DGR:	Not restricted.



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### **15. Regulatory Information**

#### **15.1 Labelling according to EC guidelines:**

- |        |                       |  |
|--------|-----------------------|--|
| 15.1.1 | R-phras(e)s:          | None                                   |
| 15.1.2 | S-phras(e)s:          | None                                   |
| 15.2   | National legislation: | Product is registered as EC-FERTILIZER |

### **16. Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.