



MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) and amended by (EC) 453/2010

Product Name: **EXCELLO®-331**

Printing date: Sept. 22, 2015

revised on: Sept. 22, 2015

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1. Identification of the Substance or Preparation and the Company / Undertaking	
1.1	Application of the preparation: Micronutrient long-term fertilizer (Depot fertilizer)
	Product label name: EXCELLO-331
1.2	Supplier: JOST GmbH Giesestr. 4 58636 Iserlohn, GERMANY
	Phone: +49 [0] 2371 94 85-23
	Fax: +49 [0] 2371 94 85 35
	Emergency telephone number: +49 [0] 228 19 240 University Hospital Bonn Information Center against Acute Poisoning
2. Hazards Identification	
	Main hazards: Not classified as hazardous.
3. Composition / Information on Ingredients	
3.1	Chemical characterization: Mixture of metal oxides and metal alloys of manganese, iron, copper, zinc, molybdenum, cobalt. Calcium borate, calcium magnesium carbonate.
3.1.1	Description: Grey-brown granulate of 1 – 4.5 mm particle size
3.1.2	CAS-No.: Not available
4. First Aid Measures	
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.
5. Fire Fighting Measures	
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
6. Accidental Release Measures	
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.
7. Handling and Storage	
7.1	Handling: Avoid contact with eyes and skin. The precautionary measures usual while handling chemicals are to be considered.
7.2	Storage: Keep in a cool, dry, well ventilated area. Store in closed original packaging, separately from the reach of children and domestic animals as well as from food.

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8. Exposure Controls / Personal Protection		
8.1	Engineering controls:	No exposition limits specified
8.2	Personal protection:	
8.2.1	Respiratory:	In case of dust formation use dust mask. General dust exposure limit of 10 mg/m ³ 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.
9. Physical and Chemical Properties		
<u>9.1 General Information</u>		
9.1.1	Appearance:	Granular of 1 – 4.5 mm particle size
9.1.2	Colour:	Grey-brown
9.1.3	Odour:	Odourless
<u>9.2 Safety-related information</u>		
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 (tapped):	1,280 kg/m ³
9.2.8	Solubility in / Miscibility with water: (20°C):	Widely insoluble
9.2.9	pH-value: (50 g/l H ₂ O at 20°C):	Not determined
10. Stability and Reactivity		
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
11. Toxicological Information		
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
12. Ecological Information		
12.1	General notes:	Content materials are essential plant nutrients.
12.2	Ecotoxicity:	No data available on this product.
13. Disposal Considerations		
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.
14. Transport Information		
14.1	Land transport ADR/RID and GGVS/GGVE (cross border/domestic):	Not limited
14.3	Sea transport IMO/IMDG-code:	Not limited
14.4	Air transport ICAO-TI and IATA-DGR:	Not limited
15. Regulatory Information		
<u>15.1 Labelling according to EC guidelines:</u>		
15.1.1	R-phrases:	None
15.1.2	S-phrases:	None
15.2	National legislation:	Product is registered as EC FERTILIZER



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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.