

Safety Data Sheet**SDS-E33-03**

Date of issue: July 12, 2007

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1. Identification of the substance/preparation and the company**Substance Name: BAYOXIDE E33 / E33P**

Manufacturer: LanXess Deutschland GmbH, Industrial & Environmental Affairs
D-51368 Leverkusen, Germany, Telephone: +46 (0) 214 30 65109
In case of emergency: +44 (0) 870 190 6777 National Chemical Emergency Centre

Supplier: Severn Trent Services Ltd, Park Lane, Minworth, Sutton Coldfield,
West Midlands, B76 9BL, UK, Telephone: +44 (0)121 313 2300

2. Composition/information on ingredients**FeO(OH)**

Ingredient Name	CAS-Number	EC Number	Classification
α -Iron Hydroxide Oxide	20344-49-4	243-746-4	Not Classified

3. Hazards Identification

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments. **See section 11 for more detailed information on health effects and symptoms.**

4. First-aid measures**Inhalation**

Move exposed person to fresh air. Keep person warm and at rest if not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain medical attention if symptoms occur. If unconscious place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs the head should be kept low so that vomit does not enter the lungs. Obtain medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie or waistband.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur. Wash clothing before re-use. Clean shoes thoroughly before re-use

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms



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5. Fire-fighting measures

Extinguishing media

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Not Suitable: None known

Special exposure hazards

No specific fire or explosion hazard.

Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal Precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8)

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see section 8) Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not re-use container.

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Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Packaging materials

Recommended : Use original container.

8. Exposure controls/Personal protection**Ingredient Name**

Iron Hydroxide Oxide

Occupational Exposure Limits

EH40-WEL (United Kingdom (UK), 1/2005. Notes as Fe

WEL 15 min limit: 2mg/m³, (As Fe) 15 minutesWEL 8 hrs Limit: 1 mg/m³, (As Fe) 8 hrs**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/ or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for Methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls**Occupational exposure controls**

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures

Ash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before re-using. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection**Respiratory protection**

Recommended dust protection mask

Hand protection

Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is

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necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended, safety glasses with side shields.

Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

Environmental exposure controls

Emissions from ventilation or work process equipments should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modification to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General Information

Appearance

Physical state	Solid
Colour	Black, Brown
Odour	Odourless

Important health, safety and environmental information

pH	3.5 to 7.5 (Conc. (wt%):5)
Melting point	>1000°C
Density	3.6 kg/L
Solubility	Insoluble in the following materials: cold water

10. Stability and reactivity

Stability :	The product is stable.
Decomposition Temperature :	180° C
Hazardous Decomposition Products :	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure	
Iron hydroxide oxide	LD50	Rat	Oral	>5000 mg/kg	-

Skin and mucous membrane compatibility/sensitisation:

	Ingredient name	Result
Skin Contact	Iron Hydroxide Oxide	Non-irritating

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Eye contact Iron Hydroxide Oxide Non-irritating

Potential chronic health effects

12. Ecological Information**Ecotoxicity data**

Product/ingredient name	Test	Result	Species	Exposure
Iron hydroxide oxide	-	Acute LC50 >1000 mg/L	Fish - Leuciscus Idus	96 hours

Other ecological information

Product /ingredient name	Aquatic half-life	Photolysis	Biodegradability
Iron hydroxide oxide	-	-	Not readily

Environmental effects : Not readily biodegradable

13. Disposal considerations**Methods of disposal**

Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL)

Hazardous waste

Within the present knowledge of the supplier, this product (as sold) is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC

14. Transport information

Regulation	UN Number	Proper Shipping name	Class	PG	Label	Additional Information
ADR/RID	-	-	-	-	-	Not regulated
GGVSE	-	-	-	-	-	Not regulated
ADNR	-	-	-	-	-	Not regulated
IMDG	-	-	-	-	-	Not regulated
IATA	-	-	-	-	-	Not regulated



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PG Packing group

Not Dangerous Cargo
Keep Separate from foodstuffs

15. Regulatory information

EU Regulations

Classification and labelling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Industrial applications

Risk Phrases : This product is not classified according to EU Legislation

16. Other information

History

Date of issue 11 July 2007

Data based on information provided by LanXess in SDS 06532748

Version	3	General Update throughout and change of reference number from 411144
	2-2	Inclusion of E33P
	2	Inclusion of additional information
	1	Original

Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.