

Product Information

IOX B 03

Description

Туре	Black pigment
Delivery form	Powder
Chemical class	Synthetic iron oxide Fe ₃ O ₄
Colour Index	Pigment black 11 (77499)
CAS-No.	1317-61-9

Specification

Colour values and tinting strength			
Reference	IOX B 03		
Powder standard	2002		
Binder	Cement mortar	•	
	min	max	Test method
Color difference			
Delta E _{ab} *		2.0	
Technical data			
Sieve residue (0,045 mm) [%]		0.1	DIN 53195 (1990)

Informative technical data (guide values)

					Test method
Content Fe ₂ O ₃ [%]	~		90		DIN 55913 sheet 2 (1972)
pH value		3.0	-	8.0	DIN EN ISO 787 part 9 (1995)
Water soluble content [%]	<		1.5		DIN EN ISO 787 part 3 (1995)
Moisture content (at delivery) [%]	<		4.0		DIN EN ISO 787 part 2 (1995)



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Packaging

25-kg-bag

Transport and storage

Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.

Special conditions for opened packaging: Close bags after use to prevent the absorption of moisture and contamination.

Safety

The product is not classified as dangerous under the relevant EC Directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations.

In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured. The safety data sheet should be observed. This contains information on handling, product safety and ecology.

Safety data sheet no.: 163655

SAFETY DATA SHEET

IOX B 03

05915473

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : IOX B 03

REACH Registration number

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses : Colorants (pigments and dyestuffs), inorganic

1.3 Details of the supplier of the safety data sheet

: LANXESS Deutschland GmbH, Industrial & Environmental Affairs Supplier/Manufacturer

51369 Leverkusen, Germany, Telephone: +49 214 30 65109

E-mail: infosds@lanxess.com

1.4 Emergency telephone

number

: +49 214 30 99300 (Sicherheitszentrale CHEMPARK Leverkusen)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

: Not classified. Classification

Classification according to Directive 67/548/EEC [DSD]

Classification : Not classified.

2.2 Label elements

Hazard pictograms : Not applicable. Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. Response : Not applicable. Storage : Not applicable. Disposal : Not applicable.

2.3 Other hazards

result in classification

Other hazards which do not : Fandling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and

throat.

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SECTION 3: Composition/information on ingredients

Product definition (REACH) : Mono-constituent substance

Fe304

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

SECTION 4: First aid measures

4.1 Description of 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. Get 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 : No special measures required. Skin contact : No special measures required.

: Immediately flush eyes with plenty of water, occasionally lifting the Eye contact

> 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.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

Hazardous combustion

products

: No specific data.

5.3 Advice for firefighters

Special precautions for fire-: Not applicable.

fighters

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.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Avoid breathing dust. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8). Hazard of slipping on spilt product.
- **6.2 Environmental precautions**
- : Avoid dispersal of spilt 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).
- 6.3 Methods and materials for containment and cleaning up

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.

Large spill

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

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe

handling

: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

: No special measures required.

7.3 Specific end use(s)

Recommendations Industrial sector specific

: Not available.

solutions

: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit values : Not available.

Derived effect levels

Ingredient name **Exposure** Value **Population Effects** Type triiron tetroxide **DNEL** 10 mg/m³ Long term Inhalation Workers Local DNEL Long term Inhalation 3 mg/m³ Workers Local

Conclusion/Summary : Dust Inhalable 10 mg/m³, Respirable dust 3 mg/m³

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Ingredient name Type	С	ompartment Detail	Value	Method Detail	
Conclusion/Summary	: P1	NECs : Not applicable) .		
Recommended monitoring procedures	: If w d m e 6	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.			
8.2 Exposure controls					
Risk management measures					
Occupational exposure contr		_			
Technical measures	fu V	umes, gas, vapour or entilation or other eng	mist, use proces ineering controls	ser operations generate dust, s enclosures, local exhaust s to keep worker exposure to mmended or statutory limits.	
Personal protection measures			•	•	
Respiratory protection	: 🕟	Recommended: Dust-	protection mask		
Hand protection	: 🕟	ecommended: glove	es .		
Eye protection	u e c g	sed when a risk asses	ssment indicates shes, mists, gase dust concentration	roved standard should be this is necessary to avoid es or dusts. If operating ons to be produced, use dust e-shields	
Skin protection	b		g performed and	oody should be selected If the risks involved and should It ing this product.	
Hygiene measures	p e re c	roducts, before eating and of the working peri emove potentially con	g, smoking and u iod. Appropriate taminated clothi g. Ensure that ey	ighly after handling chemical sing the lavatory and at the techniques should be used to ng. Wash contaminated yewash stations and safety cation.	

Environmental exposure controls

Predicted effect concentrations

Technical measures

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Appearance

Physical state : Solid. [powders]

Colour : Black. : Ødourless. Odour

Important health, safety and environmental information

pН : 4 to 8 [Conc. (% w/w): 5%]

: 1/597°C (2906,6°F) **Melting point** : 5,17 kg/L (20 °C) **Density** : <0,000001 g/l (water) Solubility

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or 10.1 Reactivity

its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions

will not occur.

: At temperatures above 80 °C the product may become unstable and 10.4 Conditions to avoid

oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials. The

product should therefore not be stored near heat sources.

: No specific data. 10.5 Incompatible materials

10.6 Hazardous

decomposition products

: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the eyes.

Acute toxicity

Product/ingredient	Result	Species	Dose	Exposure	Test
name					

triiron tetroxide LD50 - Rat >5000 mg/kg -Oral

Irritation/Corrosion

Skin : Non-irritating *Test results on an analogous product **Eyes** : Non-irritating *Test results on an analogous product

Sensitiser

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Product/ingredient Result Species Dose Exposure Test

name

Product/ingredient Route of Species Result Test description

name exposure

friiron tetroxide skin Guinea pig Not sensitizing

Potential chronic health effects

Mutagenicity

Product/ingredient nameTestExperimentResultfriiron tetroxideAmes testExperiment: In vitroNegative

Subject: Bacteria

Chronic effects : Repeated or prolonged inhalation of dust may lead to chronic

respiratory irritation.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name Test Result **Species Exposure** triiron tetroxide EU C.2 Acute EC0 Daphnia -48 hours >10000 mg/l Daphnia magna **OECD 203** Acute LC0 Fish - Danio 96 hours >10000 mg/l Fish, Acute rerio

Toxicity Test

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition: Not available.

coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment
PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects

Other adverse effects : Not available.

Remarks: No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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 is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way.

Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	-	-	-	-
14.2 UN proper shipping name	-	-		
14.3 Transport hazard class(es)/Marks	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	Mo	No	No	No
14.6 Special precautions for user/Additional information	Not regulated.	Not regulated.	Not regulated.	Not regulated.

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

Not dangerous cargo.

Keep separated from foodstuffs.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

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

15.2 Chemical Safety

Assessment

: Not applicable.

: Not applicable.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

History

Date of printing : 2011-02-02

Date of issue : 2011-02-02

Date of previous issue : 2010-03-10

Version : 4

▼ Indicates information that has changed from previously issued version.

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.

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