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

KREMER

54000 Bismuth

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1. Identification of the Substance/Mixture and of the Company/Undertaking

1. 1. Product Identifier

Product Name: Bismuth

Article No.: 54000

1. 2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Industrial application

Metal production and processing, including alloys

Base metals and alloys

Metal products

Uses advised against:

1. 3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1. 4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1. 4. 2 Poison Center:

2. Hazards Identification

2. 1. Classification of the Substance or Mixture

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

This product does not require classification and labelling as

hazardous according to CLP/GHS.

Possible Environmental Effects:

2. 2. Label Elements

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

This product does not require classification and labelling as

hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2. 3. Other Hazards

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3.

3. 1. Substance

This product is a substance: see details under 3.2.

3. 2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Bismuth; REACH Reg. No. 01-2119560575-33-0000, REACH Reg.-Nr. 01-2119560575-33-0007

> 95 %

CAS-Nr: 7440-69-9 EINECS-Nr: 231-177-4

EC-Nr:

Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Take affected persons out into the fresh air.

After inhalation:

Take affected person to fresh air.

After skin contact:

Wash off with plenty of water.

After eye contact:

Rinse eyes with water.

After ingestion:

Contact poison center or physician if feeling unwell.

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Extingishing powder, foam.

Unsuitable extinguishing media:

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of toxic gases/vapors.

5. 3. Advice for Firefighters

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Protective equipment:

Wear suitable protective clothing.

Wear self-contained respiratory protective device.

Further information:

6. Accidential Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable containers for

disposal.

6. 4. Reference to other Sections

See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Wear adequate protective clothing (see para. 8).

Provide adequate ventilation.

Hygienic measures:

Do not eat or drink during work. Do not smoke. Wash hands before breaks and after work.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store at room temperature.

Requirements for storage areas and

containers:

No special measures necessary.

Information on fire and explosion

protection:

No special measures necessary.

Storage class:

Further Information:

7. 3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

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none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration

(PNEC):

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

Wash hands before breaks and after work.

Respiratory protection:

Required in case of insufficient ventilation.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

Prevent from getting into the soil, surface water and sewage

system.

9. Physical and Chemical Properties

9. 1. Information on Basic Physical and Chemical Properties

Form: powder

Color: gray

Odor: odorless

Odor threshold:

No information available.

pH-Value:

not available

Melting temperature:

not applicable

Boiling temperature: > 1560°C

Flash point:

not applicable

Evaporation rate:

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No information available.

Flammability (solid, gas):

non-combustible

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure: 1 mm Hg (1021°C)

Vapor density:

No information available.

Density: 9.792 g/cm3

Solubility in water: not readily soluble

1.873 mg/l

Coefficient of variation (n-

Octanol/Water):

no information available

Auto-ignition temperature:

not applicable

Decomposition temperature:

No data available.

Viscosity, dynamic:

not available

Explosive properties:

not available

Oxidizing properties:

no information available

Bulk density:

9. 2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

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Teratogenicity:

Specific target organ toxicity (STOT):

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10.2.	Chemical Stability	Stable if used according to specifications.		
10.3.	Possibility of Hazardous Reactions	None if used according to specifications.		
10.4.	Conditions to Avoid			
	Conditions to avoid:	No further information available.		
	Thermal decomposition:			
10.5.	Imcompatible Materials	No information available		
10.6.	Hazardous Decomposition Products	No information available.		
10.0.	nazardous Decomposition Froducts	None if stored and handled according to s	specifications	3.
10.7.	Further Information			
11.	Toxicological Information			
11. 1.	Information on Toxicological Effects			
	Acute Toxicity			
	LD50, oral:	5000 mg/kg (rat)		
	LD50, dermal:	No information available.		
	LC50, inhalation:	No information available.		
	Primary effects			
	Irritant effect on skin:	No information available		
	Irritant effect on eyes:	No information available.		
	Inhalation:	No information available.		
	Ingestion:			
	Sensitization:	No relevant data found.		
	Mutagenicity:	No relevant data found.		
	Reproductive toxicity:	No negative effects known.		
	Carcinogenicity:	No negative effects.		

No relevant data found.

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Single exposure: no information available.
Repeated exposure: no information available.

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12. 1. Aquatic Toxicity

The product is not considered to be harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12. 2. Persistency and Degradability

No information available.

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

No data available.

12. 6. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

No special effects or hazards known.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

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No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no .:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

Not classified as environmentally hazardous.

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous (German Regulation)

Local regulations on chemical accidents:

Does not underlie the Accident Ordinance.

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances,

Preparations and Articles: not applicable

Technical instructions on air quality:

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



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Page 9 Version: 2 Revised edition: 11.08.2016 Printed: 06.05.2020 15. 2. **Chemical Safety Assessment** A Chemical Safety Assessment has not been carried out for this product. 15.3. **Further Information** EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable Listed in the following inventories: EINECS (231-177-4), TSCA (US), AICS (AUS), DSL(CA), ECL (KR), PICCS (PH), IECSC (CN), NZIOC (NZ), TCSI (TW), INSQ (MX)

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.