

Material Safety Data Sheet

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



10900 Galena

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Revised edition: 15.04.2016

Version: 1

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

1.1. Product Identifier

Product Name: Galena

Article No.: 10900

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

Identified uses:

Pigment in artists colors.

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.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

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

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC
Regulation 1272/2008

Reproductive toxicity, category 1A
Acute toxicity (oral), hazard category 4
Acute toxicity (inhalation), hazard category 4
Specific target organ toxicity (repeated exposure), category 2
Hazardous to the aquatic environment, acute category 1
Hazardous to the aquatic environment, chronic category 1

H302 Harmful if swallowed.

Cat.: 4

H332 Harmful if inhaled.

Cat.: 4

H360 May damage fertility or the unborn child.

Cat.: 1B

H373 May cause damage to organs through prolonged or repeated exposure.

Cat.: 2

H410 Very toxic to aquatic life with long lasting effects.

Cat.: 1

Classification according to EC
Regulation No. 67/548 or No. 1999/45

Harmful (Xn) R20 Harmful by inhalation.

Harmful (Xn) R22 Harmful if swallowed.

R33 Danger of cumulative effects.

Hazardous to the R50 Very toxic to aquatic organisms.

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environment (N)

R53

May cause long-term adverse effects in the aquatic environment.

R61

May cause harm to the unborn child.

T, Repr. Cat. 1, 3

R62

Possible risk of impaired fertility.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to EC Regulation 1272/2008

Hazard designation:



GHS07



GHS08-2



GHS09

Signal word:

Danger

Hazard designation:

H302

Harmful if swallowed.

H332

Harmful if inhaled.

H360

May damage fertility or the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure.

H410

Very toxic to aquatic life with long lasting effects.

Safety designation:

P261

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P304+P340

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+P313

If exposed or concerned: Get medical advice/attention.

P312

Call a poison center or physician if you feel unwell.

P373

Do not fight fire when fire reaches explosives.

P391

Collect spillage

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Lead sulfide

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Hazardous Ingredients:

Lead sulphide

CAS-Nr: 1314-87-0

EINECS-Nr: 215-246-6

EC-Nr: 082-001-00-6

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.

After inhalation:

Take affected person to fresh air.

Get medical help.

After skin contact:

Wash off immediately with soap and plenty of water and rinse thoroughly.

After eye contact:

Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.

After ingestion:

Consult a doctor.

Show product label to person applying first aid.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Eye contact: can cause slight irritations.

Skin contact: slight mechanical damage possible.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Blood and urine tests can determine the amount of lead.

Acute and subacute intoxications have been observed following oral intake.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Product itself does not burn.

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: hazardous gases/vapors may be released.

In case of fire: formation of sulfur oxides.

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5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid formation of dust.

Wear appropriate protective equipment. Keep spectators away.

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:

Avoid dust formation.

Use damp or absorbing material for clean up.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Keep out of reach of children.

Hygienic measures:

Do not inhale dust. Wash hands before breaks and at the end of work.

Change contaminated clothing. Wash hands after work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in roofed-in areas at room temperature.

Store in tightly sealed containers in a dry room.

Do not store together with food stuff and animal feed.

Store containers in a well ventilated location.

Requirements for storage areas and containers:

Storage: In the original container.

Information on fire and explosion protection:

Product is not combustible.

Do not store together with: strong oxidizing substances of storage class 5.1A.

Do not store together with explosive substances of storage class 4.1A.

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Do not store together with: acids.

Storage class (VCI):

6.1 B; Non combustible toxic products

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):

Lead and its compounds: 0.1 mg/m³ (8h)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

The biological workplace tolerance (BAT) is 300 µg/l for women up to 45 yrs. and 700 µg/l for others.

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Remove contaminated clothing. Wash hands after work.

Provide separate lockers for normal and working clothes.

Respiratory protection:

Wear protective mask, particle filter P2 or FFP2 or NIOSH N95 (for solid and liquid particles, EN 143, 149) if dust occurs.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Chloroprene rubber (CR), nitrile rubber (NBR), butyl rubber, fluoro carbon rubber (FKM), polyvinyl chloride (PVC).

Recommended: Protective index 6, > 480 min. of permeation time accord. EN 374.

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

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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

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>gray, black</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>1114°C</i>
<i>Boiling temperature:</i>	<i>not available</i>
<i>Flash point:</i>	<i>not combustible</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>7.5 g/ml</i>
<i>Solubility in water:</i>	<i>practically insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>not determined</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>

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Explosive properties:

not applicable

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.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Vigorous reactions with hydrogen peroxide, iodine monochloride.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

10.5. Incompatible Materials

Hydrogen peroxide, iodine monochloride.

10.6. Hazardous Decomposition Products

Sulphur oxides, lead compounds.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

No information available.

LD50, oral:

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

Non irritating (rabbit)

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	<i>The dust particles can cause mechanical irritation.</i>
<i>Irritant effect on eyes:</i>	<i>Non-irritating to eyes (rabbit) The dust particles can cause mechanical irritation.</i>
<i>Inhalation:</i>	<i>Can cause irritation of the respiratory system.</i>
<i>Ingestion:</i>	<i>Acute intoxication effects expected after oral intake of high dosages.</i>
<i>Sensitization:</i>	<i>No information available.</i>
<i>Mutagenicity:</i>	<i>No mutagenic effects observed. Not sufficient information available.</i>
<i>Reproductive toxicity:</i>	<i>The risk of reproductive toxicity has been proven.</i>
<i>Cancerogenity:</i>	<i>Not sufficient information available.</i>
<i>Teratogenicity:</i>	<i>No information available.</i>
<i>Specific target organ toxicity (STOT):</i>	<i>Repeated exposure: may cause damage to organs after repeated or prolonged exposure.</i>
<i>Additional toxicological information:</i>	<i>Lead compounds are heavy soluble compounds, however, lead particles dissolve in hydrochloric acid in gastric fluids concentration and may accumulate in the body. Prolonged over-exposure to lead compounds may interfere with the biosynthesis of haemoglobin and may cause irreversible disorders of the nervous system. Values for this product are unknown. The results refer to those of lead white.</i>

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

LC50: > 4010 mg/l (96h)

Daphnia toxicity:

LC50: > 9960 mg/l (48h)

Bacteria toxicity:

No data available.

Algae toxicity:

No information available.

12.2. Persistency and Degradability

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*Lead may be dissolved in acid or alkaline media (amphothery).
Elimination from water must be done by chemical flocculation.*

12. 3. Bioaccumulation

The product contains lead. Any exposure to the environment must be eliminated. Special treatment is necessary before disposing of the product or its by-products or contaminated water.

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:

Do not let product contaminate ground water, waterways or sewage system.

3, hazardous

Behaviour in sewage systems:

Further ecological effects:

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

In accordance with current regulations, product has to be taken to a special waste disposal site, after consultation with site operator and/or with the responsible authority. Product may not be burned.

European Waste Code (EWC):

Uncleaned packaging:

Packaging may be disposed of in the same manner as the product.

Uncontaminated packaging may be recycled.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

3077

14. 2. UN Proper Shipping Name

ADR/RID:

UMWELTGEFÄHRDENDER STOFF, FEST, N.A.G. (Bleisulfid)

IMDG/IATA:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead Sulfide)

14. 3. Transport Hazard Classes

ADR Class:

9

Hazard no.:

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	<i>Classification code:</i>	<i>M7</i>
	<i>Tunnel no.:</i>	<i>E</i>
	<i>IMDG Class (sea):</i>	<i>9</i>
	<i>Hazard no.:</i>	<i>9</i>
	<i>EmS No.:</i>	<i>F-A, S-F</i>
	<i>IATA Class:</i>	<i>9</i>
	<i>Hazard no.:</i>	<i>9</i>
14. 4.	Packaging Group	
	<i>ADR/RID:</i>	<i>III</i>
	<i>IMDG:</i>	<i>III</i>
	<i>IATA:</i>	<i>III</i>
14. 5.	Environmental Hazards	
		<i>Labelling according 5.2.1.8 ADR/RID: fish and tree</i>
		<i>Labelling according 5.2.1.6.3 IMDG: fish and tree</i>
		<i>Classification as environmentally hazardous according 2.9.3</i>
		<i>IMDG: yes</i>
		<i>Labelled with "P" according 2.10 IMDG: yes</i>
14. 6.	Special Precautions for User	
14. 7.	Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code	
14. 8.	Further Information	

15. Regulatory Information

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

Water hazard class:

3, very hazardous for water

Local regulations on chemical accidents:

Seveso III:

Environmentally hazardous (9a); Amount 1: 100 t; Amount 2: 200 t

Employment restrictions:

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.

The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.

Restriction and prohibition of application:

Not permitted for private consumers (ChemVerbV § and GL 76/796/EEC).

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 28, 29, 30.

Technical instructions on air quality:

5.2.2.: Inorganic dust, classification II

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15. 2. Chemical Safety Assessment

15. 3. Further Information

*Seveso Category E1: Hazardous to the aquatic environment,
Category Acute 1 or Chronic 1*

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.