

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: **Zinc repair paint**

Version: 2.1 Date of issue/Latest revision: Date of issue: 28. 02. 2023 Page: 1/(13)
(Manufacturer) - / 02. 02. 2023 Date of revision: 31. 07. 2025

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

1.1. Product identifier

Zinc repair paint

UFI: 4HJH-X9ER-UA23-JA58

Article No.: 2362979

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

Relevant identified uses: Zinc repair paint. Use by professional workers. Consumer use.

Uses advised against: application other than the above.

1.3. Details of the supplier of the safety data sheet

Distributor Details:

OBO Bettermann Produktion Deutschland GmbH & Co. KG

Hüingser Ring 52, 58710 Menden (Sauerland), Germany

Tel.: +49 2373 890

Fax: +49 2373 89238

E-mail: info@obo.de

Responsible for SDS:

OBO Bettermann Produktion Deutschland GmbH & Co. KG

Hüingser Ring 52, 58710 Menden (Sauerland), Germany

Tel.: +49 2373 890

Fax: +49 2373 89238

E-mail: info@obo.de

1.4. Emergency telephone number

National Poisons Information Centre in Ireland:

Tel.: 01 809 2166 (between 8am and 10pm for members of the public)

Tel: 01 809 2566 (Professionals, 24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category:

Flam. Liq. 3

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3

STOT RE 2

Aquatic Chronic 2

Hazard statement:

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

H373

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

H411

Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Product identification: Trade name: **Zinc repair paint**

Hazardous components: Reaction mass of ethylbenzene and xylene;
Hydrocarbons, C9, aromatics

GHS Pictogram:



Signal word: **Warning**

Hazard statement:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to hearing organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary statements – General:

P101 If medical advice is needed, have product container or label at hand.

Precautionary statements – Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, lighting equipment.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves, eye protection.

Precautionary statements – Response:

P303 + P361 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
+ **P353** skin with water [or shower].
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
+ **P338** lenses, if present and easy to do. Continue rinsing.

Precautionary statements – Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

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Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile Warning: required for retail distribution.

Child-resistant fastening: not required.

Transport classification: see section 14.

EU limit for this product (A/i): 500 g/l (2010)

This product contains a maximum of 500 g/l VOC.

2.3. Other hazards

Formation of explosive vapour/air mixture is possible.

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

The product does not contain any substance with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description: Mixtures of the following substances and non-hazardous substances.

Component(s) / Hazardous component(s):

| Name | EC number | CAS number | Hazard classes and cat. | Hazard statements | Conc. % (m/m) |
|---|-----------|-------------|--|--|---------------|
| Zinc powder (stabilized) REACH Registr. Nr.: 01-2119467174-37 | 231-175-3 | 7440-66-6 | Aquatic Acute 1 Aquatic Chronic 1 | H400 (M=1) H410 (M=1) | <25 |
| Reaction mass of ethylbenzene and xylene REACH Registr. Nr.: 01-2119488216-32 | 905-588-0 | - | Flam. Liq. 3 Asp. Tox. 1 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 4 STOT SE 3 STOT RE 2 | H226 H304 H312 H315 H319 H332 H335 H373 | 10 - 25 |
| Hydrocarbons, C9, aromatics REACH Registr. Nr.: 01-21194555851-35 | 918-668-5 | 128601-23-0 | Flam. Liq. 3 Asp. Tox. 1 STOT SE 3 STOT SE 3 Aquatic Chronic 2 | H226 H304 H335 H336 H411 | ≥10 - <25 |
| Aluminum powder (stabilized) REACH Registr. Nr.: 01-2119529243-45 | 231-072-3 | 7429-90-5 | Water-react. 2 Flam. Sol. 1 | H228 H261 | 2.5 - 10 |

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| Name | EC number | CAS number | Hazard classes and cat. | Hazard statements | Conc. % (m/m) |
|--|-----------|------------|-------------------------|-------------------|---------------|
| Naphtha (petroleum), hydrotreated heavy REACH Registr. Nr.: 01-2119486659-16 | 265-150-3 | 64742-48-9 | Asp. Tox. 1 (Note P) | H304 | 2.5 - 10 |

Note P: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention. If unconscious, place in recovery position.

Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent irritation, get medical attention.

Ingestion: Rinse mouth thoroughly with water. DO NOT induce vomiting. Get prompt medical attention. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs.

Protection of first-aid person: No data.

4.2. Most important symptoms and effects, both acute and delayed

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

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

4.3. Indication of any immediate medical attention and special treatment needed

No data.

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SECTION 5: Fire-fighting measures

- 5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide, dry chemical powder, water fog. In case of a larger fire alcohol resistant foam.
Unsuitable extinguishing media:
Full water jet.
- 5.2. Special hazards arising from the substance or mixture
Hazardous combustion products:
On burning, carbon dioxide, carbon monoxide and other toxic fumes / gases can be formed.
- 5.3. Advice for fire-fighters
Special protective equipment:
According to the existing fire-fighting regulations. Respiratory protection.
Further information:
In case of fire, keep containers cool with water spray.
Collect contaminated firefighting water separately. It must not enter the sewage system.
Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions: see Section 8.
Keep persons not involved in rescue at a distance.
Sufficient ventilation should be provided.
Avoid contact with skin, clothing and eyes, inhalation of vapours.
Keep away from sources of ignition – No smoking.
- 6.2. Environmental precautions:
Confine spills to prevent material from entering sewers, watercourses, drains and into soil
Notify relevant authority.
- 6.3. Methods and material for containment and cleaning up
On soil: Adequate ventilation must be provided. All kind of ignition sources should be removed. Recover free liquid by pumping. Contain the rest or small quantities with non-combustible liquid-absorbent material (sand, diatomaceous earth, acid binder, universal liquid binder). Place in properly labelled closed container. Dispose of according to local regulations.
The contaminated area should not be washed with water or aqueous detergents.
On water: Confine the spillage. Remove from surface by skimming or suitable absorbents. Notify local authorities according to regulations.

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6.4. Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids.

Adequate ventilation must be provided.

Keep away from radiant heat and open flame.

Avoid to accumulate electrostatic charge.

Avoid contact with skin and eyes. Avoid prolonged breathing of vapours.

Wash hands before breaks and at end of work.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: no data.

7.2. Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.

Store in dry, cool well-ventilated place in original, closed containers.

Keep away from food, drink and feed.

Keep out of reach of children.

Storage temperature: max. no data.

7.3. Specific end use(s)

Zinc repair paint.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

| Substance | CAS number | Occupational Exposure Limit Value (8-hour reference period) | | Occupational Exposure Limit Value (15-minute reference period) | | Notes |
|------------------------------|------------|---|-------------------|--|-------------------|-----------|
| | | ppm | mg/m ³ | ppm | mg/m ³ | |
| <i>Xylene, mixed isomers</i> | 1330-20-7 | 50 | 221 | 100 | 442 | Sk, IOELV |
| <i>Ethylbenzene</i> | 100-41-4 | 100 | 442 | 200 | 884 | Sk, IOELV |
| <i>Aluminium metal</i> | 7429-90-5 | - | 1 (R) | - | - | - |

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8.2. Exposure controls

Engineering control measures:

Adequate ventilation.

Personal protection:

- | | |
|----------------------------|--|
| (a) Eye/face protection | Tightly fitting safety goggles (EN 166). |
| (b) Skin protection | |
| (i) Hand protection | Solvent-resistant protective gloves (EN 374) Material: fluorine rubber (viton) Breakthrough time: >480 min. Note: Manufacturer's directions for use and the conditions of application should be observed. |
| (ii) Other | Work clothes. |
| (c) Respiratory protection | Under normal conditions not required. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended (filter type A2-P2, EN 14387). In case of high concentration or long-term exposure, a respirator independent of the ambient air is required. |
| (d) Thermal hazards | No data. |

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|--|---|
| a) Physical state: | liquid |
| b) Colour: | according to product designation |
| c) Odour: | characteristic |
| d) Melting point/freezing point (Pour point): | not available |
| e) Boiling point or initial boiling point and boiling range: | 137°C |
| f) Flammability: | Flammable liquid and vapour. |
| g) Lower and upper explosion limit: | Non-explosive, but the formation of an explosive gas/vapour/air mixture is possible. 0.6 V/% / 7.0 V/% |
| h) Flash point: | 23-27°C |
| i) Auto-ignition temperature: | not available |

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- | | |
|---|--|
| j) Decomposition temperature: | not available |
| k) pH: | not available |
| l) Kinematic viscosity | |
| at 40°C: | not available |
| at 100°C: | not available |
| m) Solubility | |
| Solubility in water: | not soluble, or only slightly soluble in water |
| Solubility in other solvents: | not available |
| n) Partition coefficient n-octanol/water (log value): | not available |
| o) Vapour pressure at 20°C: | 210 hPa |
| p) Density and/or relative density at 20°C: | 1.1-1.7 g/cm ³ |
| q) Relative vapour density: | not available |
| r) Particle characteristics: | not available |

9.2. Other information

- | | |
|--------------------------|-------------------|
| Ignition temperature: | 450°C |
| VOC: | max. 500 g/L |
| Organic solvent content: | 37-42 % |
| Solids content: | 58-63 % |
| Dynamic viscosity: | 2500 - 25000 mPas |

SECTION 10: Stability and reactivity

- | | |
|--|---|
| 10.1. Reactivity | Dangerous reactivity not known. |
| 10.2. Chemical stability | No decomposition if stored and handled properly. |
| 10.3. Possibility of hazardous reactions | Reaction with water (hydrogen formation) |
| 10.4. Conditions to avoid | Moisture. |
| 10.5. Incompatible materials | Not known. |
| 10.6. Hazardous decomposition products | No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5. |

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

- | | |
|--------------------------------|---|
| Acute toxicity: | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation: | Causes skin irritation. |
| Serious eye damage/irritation: | Causes serious eye irritation. |

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Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: May cause respiratory irritation.
STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

The product does not contain any substance with endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components:

Reaction mass of ethylbenzene and xylene (EC: 905-588-0)

| | | | |
|----------|------------------|----------|------|
| Fish: | LC ₅₀ | 2.6 mg/L | 96 h |
| Daphnia: | LC ₅₀ | 1.0 mg/L | 24 h |

12.2. Persistence and degradability No data for the product.

12.3. Bioaccumulative potential No data for the product.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Does not contain PBT and vPvB substances.

12.6. Endocrine disrupting properties The product does not contain any substance with endocrine disrupting properties.

12.7. Other adverse effects Do not allow to enter sewers, surface water or ground water.

Water hazard class (German): WGK 2 (self-classification)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 08 01 11*

Waste paint and varnish containing organic solvents or other dangerous substances.

Disposal must be in compliance with national and local regulations.

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Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

SECTION 14: Transport information

Land transport:

Road/ Railway

ADR/RID:

- | | |
|---|-------------------------------|
| 14.1. UN number or ID number | 1263 |
| 14.2. UN proper shipping name | PAINT |
| 14.3. Transport hazard class(es) | 3 (classification code: F1) |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | dangerous for the environment |
| Marine pollutant | yes |
| 14.6. Special precautions for user | |
| Hazard identification No.: | 30 |
| Limited and excepted quantities: | 5L / E1 |
| Tunnel restriction code: | D/E |
| EmS: | F-E, S-E |
| 14.7. Maritime transport in bulk according to IMO instruments | Not applicable. |

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.
Seveso category: P5.c, E2.
- 15.2. Chemical safety assessment.
Not available.

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SECTION 16: Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)

| | | |
|-------------------|------|-----------------|
| Flam. Liq. 3 | H226 | flashpoint test |
| Skin Irrit. 2 | H315 | calculated |
| Eye Irrit. 2 | H319 | calculated |
| STOT SE 3 | H335 | calculated |
| STOT RE 2 | H373 | calculated |
| Aquatic Chronic 2 | H411 | calculated |

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H261 | In contact with water releases flammable gases |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness |
| H373 | May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

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| | |
|-------------------|---|
| Flam. Liq. 3 | Flammable liquid Category 3 |
| Flam. Sol. 1 | Flammable solid Category 1 |
| Water-react. 2 | Substances and mixtures which in contact with water emit flammable gases Category 2 |
| Acute Tox. 4 | Aspiration hazard Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| STOT SE 3 | Specific target organ toxicity — single exposure Category 3 |
| STOT RE 2 | Specific target organ toxicity – repeated exposure Category 2 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, Acute Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, Chronic Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, Chronic Category 2 |

Legend:

| | |
|-------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BOD | Biological Oxygen Demand |
| Bw | Body Weight |
| C&L | Classification and Labelling |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| CMR | Carcinogenic, Mutagenic or toxic to Reproduction |
| COD | Chemical Oxygen Demand |
| CSA | Chemical Safety Assessment |
| CSR | Chemical Safety Report |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| ECHA | European Chemicals Agency |
| Ec _x | Effective Concentration x% |
| ErC ₅₀ | EC ₅₀ in terms of reduction of growth rate |
| Ed _x | Effective Dose x% |
| EC | European Community |
| EC number | European Community number |
| ELINCS | European List of Notified Chemical Substances |
| ES | Exposure Scenario |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |

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| | |
|-------|---|
| IMDG | International Maritime Dangerous Goods |
| LCx | Lethal Concentration x% |
| LDx | Lethal Dose x% |
| LOAEC | Lowest Observed Adverse Effect Concentration |
| LOAEL | Lowest Observed Adverse Effect Level |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest Observed Effect Level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| NLP | No-Longer Polymer |
| NOAEL | No Observed Adverse Effect Level |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | Persistent Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts/million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International carriage of Dangerous Goods by Rail |
| SVHC | Substance of Very High Concern |
| UVCB | substance of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bio-accumulative |

Revision Indicators:

| Section | Subject of change | Date | Version |
|---|---|--------------|---------|
| 2.2. 3.2. 8.1 9. 10. 1-16. | Label elements Composition/information on ingredients Control parameters Physical and chemical properties Stability and reactivity Other corrections | 08. 07. 2024 | 2 |
| 1.3. | Relevant identified uses of the substance or mixture and uses advised against | 31. 07. 2025 | 2.1. |