

Safety data sheet

according to 1907/2006/EC, Article 31



Trade name: Zinc repair paint

Created on: 09.06.2020 Changed on: 10.07.2024

Version: 1.1 Version to be replaced 1.0

Number of pages: 12

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Zinc repair paint
Article number: 2362979
Type: ZABF

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

No further relevant information available.

Application of the substance / the mixture

Coating compound/ Surface coating/ paint
Coating

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier

OBO Bettermann Holding GmbH & Co. KG
P.O. Box 1120
58710 Menden
Germany

Further information obtainable from

Customer Service
Tel.: +49 2373 89 - 17 00
E-Mail: info@obo.de

1.4 Emergency telephone number

REACH Registration of Chemicals GmbH
Tel.: +49 (0)700 24112112 (OBO)
Tel.: +1 872 5888271 (OBO)
(24-h-advisory service in German or English language)

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226 Flammable liquid and vapour.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.
STOT RE 2	H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

2.1 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS 02

GHS 07

GHS 028

GHS 09

Signal word

Warning

Hazard-determining components of labelling

xylene

Solvent naphtha (petroleum), light arom.

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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.

P280 Wear protective gloves / eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.2 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
















vPvB: Not applicable.

3. Composition/information on ingredients

3.1 -

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous components		
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9	zinc powder -zinc dust (stabilized)  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥10 - <25%
CAS: 64742-95-6 EG-Nummer: 918-668-5 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 3, H411,  STOT SE 3, H335 - 366;	≥10 - <25%
EC number: 905-588-0	xylene Consisting of: 1330-20-7 xylene (≥75%); 100-41-4 ethylbenzene (<25%)  Flam. Liq. 3, H226;  STOT RE 2, H373;  Asp. Tox. 1, H304;  Acute Tox. 4, H312;  Acute Tox. 4, H332;  Skin Irrit. 2, H315;  Eye Irrit. 2, H319;  STOT SE 3, H335	10 - 25%
CAS: 7429-90-5	aluminium powder (stabilized)  Flam. Sol. 1, H228	≤2,5%
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy  Asp. Tox. 1, H304	<5%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

4. First aid measures

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

After inhalation

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents

Water with full jet

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information: Cool endangered receptacles with water spray.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles

Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Storage class: 3**7.3 Specific end use(s)**

No further relevant information available.

8. Exposure controls/personal protection**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace**

xylene	
IOELV	Short-term value: 442 mg/m ³ Long-term value: 221 mg/m ³

Regulatory information

IOELV: (EU) 2019/1831

DNELs		
xylene		
Oral	DNEL long-term exposure - systemic effects	1,6 mg/kg (population (Verbraucher))
Dermal	DNEL long-term exposure - systemic effects	108 mg/kg bw/d (population (Verbraucher))
Inhalative	DNEL short-term exposure - systemic effects	174 mg/m ³ (population (Verbraucher)) 289 mg/m ³ (worker (Arbeiter/Arbeitnehmer))
	DNEL long-term exposure - systemic effects	14,8 mg/m ³ (population (Verbraucher))
	DNEL short-term exposure - local effects	77 mg/m ³ (worker (Arbeiter/Arbeitnehmer)) 289 mg/m ³ (worker (Arbeiter/Arbeitnehmer))
	DNEL long-term exposure - local effects	174 mg/m ³ (population (Verbraucher)) 221 mg/m ³ (worker (Arbeiter/Arbeitnehmer))

PNECs	
xylene	
PNEC STP (Kläranlage)	6,58 mg/l (sewage plant (Kläranlage))
PNEC (Boden)	2,31 mg/kg (soil (Boden))
PNEC (Meerwasser)	0,327 mg/l (water (Wasser))
PNEC (Süßwasser)	0,327 mg/l (water (Wasser))
PNEC (Sediment Meerwasser)	12,64 mg/kg (sediment (Sediment))
PNEC (Sediment Süßwasser)	12,64 mg/kg (sediment (Sediment))

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls : No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

In case of working at not adequately ventilated work places and spraying, breathing protection is obligatory.

We recommend a fresh air helmet or a composite filter (only for short-term jobs):
breathing filter A2-P2 (EN 14387)

Hand protection

Solvent resistant gloves



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

e.g.:

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles

Body protection

Protective work clothing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state: Fluid

Colour: According to product specification

Odour: Characteristic

Odour threshold: Not determined.

Melting point/freezing point: Not determined.
Boiling point or initial boiling point and boiling range: 137 °C
Flammability: Flammable.
Lower and upper explosion limit
Lower: 0,6 Vol %
Upper: 7 Vol %
Flash point: 23-60 °C
Ignition temperature: 450 °C
Decomposition temperature: Not determined.
pH: Mixture is non-soluble (in water).
Viscosity:
Kinematic viscosity at 20 °C: > 60 s (ISO 6 mm)
Dynamic: Not determined..
Solubility:
Water: Not miscible or difficult to mix..
Partition coefficient n-octanol/water (log value): Not determined.
Vapour pressure at 20 °C: 210 hPa
Density and/or relative density
Density at 20 °C: 1,57-1,68 g/cm³
Relative density: Not determined.
Vapour density: Not determined.

9.2 Other information

VOC-Kat.: Kat A/i, 500 g/l (2010).
This product contains max. 500 g/l VOC.

Appearance:

Form: Pasty

Important information on protection of health and environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Solvent content:

Organic solvents: 29 - 32 %

Solids content: 68 - 71 %

Change in condition

Evaporation rate: Not determined

Information with regard to physical hazard classes

Explosives: Void

Flammable gases: Void

Aerosols: Void

Oxidising gases: Void

GGases under pressure: Void

Flammable liquids: Flammable liquid and vapour

Flammable solids: Void

Self-reactive substances and mixtures: Void

Pyrophoric liquids: Void

Pyrophoric solids: Void

Self-heating substances and mixtures: Void

Substances and mixtures, which emit flammable gases in contact with water: Void

Oxidising liquids: Void

Oxidising solids: Void

Organic peroxides: Void

Corrosive to metals: Void

Desensitised explosives: Void

10. Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known

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.

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 the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

12. Ecological information**12.1 Toxicity**

Aquatic toxicity:

xylene	
LC50/96 h	2,6 mg/l (fish)
LC50/24h	1 mg/l (daphnia)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Toxic for fish.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

13. Disposal considerations**13.1 Waste treatment methods**

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

European waste catalogue	
08 01 11	waste paint and varnish containing organic solvents or other hazardous substances

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. Transport information

14.1 UN number or ID number

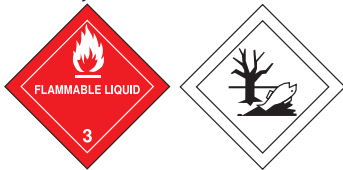
ADR, IMDG, IATA UN1263

14.2 UN proper shipping name

ADR 1263 PAINT, ENVIRONMENTALLY HAZARDOUS
 IMDG PAINT, MARINE POLLUTANT
 IATA PAINT

14.3 Transport hazard class(es)

ADR, IMDG



Class: 3 Flammable liquids
 Label: 3

IATA



Class: 3 Flammable liquids
 Label: 3

14.4 Packing group

ADR, IMDG, IATA: III

14.5 Environmental hazards

Product contains environmentally hazardous substances: Solvent naphtha (petroleum), light arom.

Marine pollutant: Yes
 Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code): 30

EMS-Number: F-E,S-E

Stowage Category: A

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3

Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN „Model Regulation“:	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

15. Regulatory information

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

Directive 2012/18/EU	
Named dangerous substances - ANNEX I	None of the ingredients is listed.
Seveso category	E2 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements	200 t
Qualifying quantity (tonnes) for the application of upper-tier requirements	500 t
REGULATION (EC) No 1907/2006 ANNEX XVII:	Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226	Flammable liquid and vapour.
H228	Flammable solid.
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.
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.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the „International Air Transport Association“ (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the „International Civil Aviation Organisation“ (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Sol. 1: Flammable solids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

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

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic

Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic

Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Department issuing SDS

Technical Documentation