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

Trade name: Zinc repair paint

SECTION 1:

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

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1.1. Product identifier: Zinc repair paint UFI: N5MT-NA1N-F42N-KQQY Article number.: 2362979 Relevant identified uses of the substance or mixture and uses advised against 1.2. 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: Hazard statement: 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 May cause damage to hearing organs through H373 prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Aquatic Chronic 2 H411



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2.2.

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Label elements	Label elements				
Product identification:		Trade name:	Zinc repair paint		
Hazardous com	ponents:		Reaction mass of ethylbenzene and xylene; Hydrocarbons, C9, aromatics		
GHS Pictogran	1:				
Signal word:		Wa	rning		
Hazard stateme H226 H315 H319 H335 H373 H411	-				
Supplemental h		•			
Precautionary s P101	statements	– General:	ed, 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. 					
P303 + P361 + P353 P305 + P351 + P338	 skin with water [or shower]. 351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. nary statements – Storage: 				
P403 + P233	Store in a	a well-ventilated	place. Keep container tightly closed.		



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Store in a well-ventilated place. Keep cool. P403 + P235P405 Store locked up. Precautionary statements – Disposal: Dispose of contents/container in accordance with national regulation. P501 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 discusting properties.

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



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Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
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
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 inform	nation: 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.	Causes ski Causes ser	ous eye irritation.			
	May cause respiratory irritation.				



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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.

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.



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6.3.	Methods and m	naterial 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.			

6.4. Reference to other sections Personal precautions: see section 8. Waste treatment methods: see section 13.

Handling temperature: no data.

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.
- 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.



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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	
Xylene, mixed isomers	1330-20-7	50	221	100	442	Sk, IOELV
Ethylbenzene	100-41-4	100	442	200	884	Sk, IOELV

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.
	(1

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:
 b) Colour:
 c) Odour:
 liquid according to product designation characteristic



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	d) e)	Melting point/freezing point (Pour point): Boiling point or initial boiling point and boiling range:	not available 137°C
	f) g)	Flammability: Lower and upper explosion limit:	Flammable liquid and vapour. 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
	j)	Decomposition temperature:	not available
	k)	pH:	not available
	1)	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:	$1.1-1.7 \text{ g/cm}^3$
	q)	Relative vapour density:	not available
	r)	Particle characteristics:	not available
9.2.	Oth	ner 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.



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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 defi	ined in Regulation	(EC) No 1272/2008
11.1. Information on	muzura crusses us acri	med in Regulation	(LC) 10 1212 2000

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 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/L96 hDaphnia: LC_{50} 1.0 mg/L24 h				
Daphnia: 12.2. Persistence and degradability		1.0 mg/L data for the product.	24 11	
12.3. Bioaccumulative potential	No	data for the product.		
12.4. Mobility in soil	No	data available.		
12.5. Results of PBT and vPvB asse	essment Doe	s not contain PBT an	d vPvB substances.	



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12.6. Endocr	ine disrupting properties	The product does not contain any sendocrine disrupting properties.	substance with
12.7. Other a	dverse effects	Do not allow to enter sewers, surface water.	e water or ground
Water I	nazard 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.

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

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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

SECTION 16: Other information

Aquatic Chronic 2

H411

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 flashpoint test H226 Skin Irrit. 2 H315 calculated Eve Irrit. 2 calculated H319 STOT SE 3 calculated H335 STOT RE 2 H373 calculated

calculated



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The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.: Flammable liquid and vapour. H226 H228 Flammable solid. H261 In contact with water releases flammable gases May be fatal if swallowed and enters airways. H304 H312 Harmful in contact with skin. Causes skin irritation. H315 H319 Causes serious eve irritation. Harmful if inhaled. H332 H335 May cause respiratory irritation. May cause drowsiness or dizziness H336 May cause damage to organs through prolonged or repeated exposure H373 through prolonged or repeated exposure. Very toxic to aquatic life. H400 H410 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411 Flam. Liq. 3 Flammable liquid Category 3 Flammable solid Category 1 Flam. Sol. 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 corrosion/irritation Category 2 Skin Irrit. 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Acute toxicity Category 4 Acute Tox. 4 Specific target organ toxicity — single exposure Category 3 STOT SE 3 Specific target organ toxicity — single exposure Category 3 STOT SE 3 Specific target organ toxicity - repeated exposure Category 2 STOT RE 2 Hazardous to the aquatic environment, Acute Category 1 Aquatic Acute 1 Hazardous to the aquatic environment, Chronic Category 1 Aquatic Chronic 1 Aquatic Chronic 2 Hazardous to the aquatic environment, Chronic Category 2 Legend: European Agreement concerning the International Carriage of Dangerous Goods by Inland ADN Waterways ADR European Agreement concerning the International Carriage of Dangerous Goods by Road ATE Acute Toxicity Estimate BCF **Bioconcentration Factor**



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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
Ecx	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Edx	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
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
	· · ·



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Other corrections

1-16.

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Revision Indicators:			
Section	Subject of change	Date	Version
2.2.	Label elements	08.07.2024	2
3.2.	Composition/information on ingredients		
8.1	Control parameters		
9.	Physical and chemical properties		
10.	Stability and reactivity		

