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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on: 10.09.2015 Replaces revision of: 06.09.2004 PDF print date: 10.09.2015 Corabit-Armierungsbahn;

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Corabit-Armierungsbahn

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

roadworks

This is an article

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Kebulin-Gesellschaft Kettler GmbH & Co. KG, Ostring 9, D-45701 Herten-Westerholt Tel. ++49(0)209/9615-0, Fax ++49(0)209/9615-190

1.4 Emergency telephone

Advisory office in case of poisoning:

Tel.

Telephone number of the company in case of emergencies:

Tel. ++49(0)209/9615-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not classified

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Not applicable

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not classified

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

This is an article.

Symbols: Not applicable

Indications of danger: ---

R-phrases: S-phrases:

Additions: n.a.

2.3 Other hazards

Will cause burns if hot material contacts eyes.

Will cause burns if hot material contacts skin.

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not includes under XIII of the regulation (EC) 1907/2006.

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SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Mixture of asphalt and mineral filler

mixture or deprior and minoral mile	
Asphalt	
Registration number (ECHA)	01-2119480172-44
Index	-
EINECS, ELINCS	265-196-4
CAS	8052-42-4
content %	10 - 100
Classification according to Directive 67/548/EEC	Not classified
Classification according to Regulation (EC) 1272/2008 (CLP)	Not classified

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms appear

Skin contact

Cold Product - Wash contaminated skin with soap and water. Remove contaminated clothing and wash underlying skin as soon as reasonably practicable.

Hot Product - Flood skin with cold water to dissipate heat, cover with clean cotton or gauze, obtain medical advice immediately.

Eye contact

Cold product - Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open.

Obtain medical advice if any pain or redness develops or persists.

Hot product - Flood with water to dissipate heat. In the event of any product remaining, do not try to remove it other than by continued irrigation with water. Obtain medical attention immediately.

Ingestion

Typically no exposure pathway

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

4.3 Indication of any immediate medical attention and special treatment needed

Where skin burns occur, the area should be immediately immersed in cold water until the product is thoroughly cooled. Do not attempt to remove the product from the skin as it provides an airtight sterile covering over the burn, which will eventually fall away with the scab as the burn heals.

If for any reason the product must be removed, this can be done using a slightly warmed medicinal liquid paraffin.

Kerosene and other solvents should never be used.

All burns should receive medical attention.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases.

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Normally not necessary.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Contact with hot product may cause burns. Put on appropriate personal protective equipment (see Section 8). Avoid contact with skin. Avoid contact with eyes. If splashing is likely to occur, wear a full-face visor or chemical goggles as appropriate. Do not spray onto wet road surfaces or when rain is forecast as any resultant run-off could contaminate ditches and drains. Eating, drinking, smoking, as well as food-storage, is prohibited in workroom.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Storage category referred to TRGS 510: 11/13

Not to be stored in gangways or stairwells.

Store product closed and only in original packing.

Store at room temperature.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits No limit of exposure value known.

Asphalt						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,9	mg/m³ 8 h	NIOSH

Remarks:

The DNEL does not represent a regulatory exposure limit but needs to be considered during workplace risk assessments.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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Eye/face protection:

Cold material: wear safety glasses with side shields.

Hot material: to prevent thermal burns wear a helmet, full face visor and heat resistant neck flap / apron.

Chemical splash goggles.

Skin protection - Hand protection:

Cold material: Wear chemical resistant gloves. Recommended: nitrile gloves.

Hot material: to prevent thermal burns wear heat resistant and impervious gauntlets/gloves.

Protective gloves must give suitable protection against mechanical risks (i.e. abrasion, blade cut and puncture).

Do not re-use gloves. Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

Protective hand cream recommended.

Skin and body:

Cold material:

Wear impervious coveralls covering the full body and limbs.

Refer to standard: ISO 11612 Refer to standard: EN 1149

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination.

Chemical resistant boots.

When the risk of skin exposure is high (from experience this could apply to the following tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required.

Work clothing / overalls should be laundered on a regular basis. Professional cleaners who have been told about the hazards of the contamination should only do laundering of contaminated work clothing. Always keep contaminated

work clothing away from uncontaminated work clothing and uncontaminated personal clothes.

Respiratory protection:

If OES or MEL is exceeded.

Normally not necessary.

Thermal hazards:

Hot material: Wear impervious and heat resistant coveralls covering the full body and limbs.

Precautions are required to prevent protective clothing from accidentally trapping product against the skin.

Trouser legs should be worn over protective boots. The sleeve cuffs of protective clothing should be worn over protective gloves / gauntlets.

Protection should be provided for exposed areas of the neck and head. As appropriate, a heat resistant and impervious hood, a neck cover / apron or a neck flap can be used to protect from burns. Hardhat. Heat resistant boots. Footwear highly resistant to chemicals.

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

Not information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid
Color: black
Odor: Characteristic
Odor threshold: Not available

PH-value: n.

Melting point/freezing point: ca. 150°C (Softening Point)

Initial boiling point and boiling range:

Not determined

> 230 °C (Open cup)

Auto-ignition temperature: > 300 °C
Evaporation rate: Not available
Flammability (solid, gas): Not determined
Lower explosive limit: Not determined
Upper explosive limit: Not determined

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Vapor pressure:Not determinedVapor density (air = 1):Not determinedDensity:1,0-1,2 g/ml

Bulk density: n.a.

Solubility: insoluble in water

Water solubility:

Partition coefficient (n-octane/water):

Decomposition temperature:

Viscosity:

Insoluble

Not determined

Not determined

Not determined

Explosive properties: Product is not explosive

Oxidizing properties: No

9.2 Other information

No additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid excessive heat.

10.5 Incompatible materials

See also section 7.

None known.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

Γoxicity/effect	End Point	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral oute:						n.d.a
Acute toxicity, by dermal oute:						n.d.a
Acute toxicity, by nhalation:						n.d.a
Skin corrosion/irritation:						n.d.a
Serious eye damage/irritation						n.d.a
Respiratory or skin sensitisation:						n.d.a
Germ cell mutagenicity:						n.d.a
Carcinogenicity:						n.d.a
Reproductive toxicity:						n.d.a
Specific target organ oxicity - single exposure STOT-SE)						n.d.a
Specific target organ oxicity - repeated exposure (STOTRE)						n.d.a
Aspiration hazard:						n.d.a
Respiratory tract irritation:						n.d.a
Repeated dose toxicity:						n.d.a
Symptoms:						n.d.a

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Other information This is an article.

Asphalt Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral	LD50	>5000		Rat	OECD 401 (Acute	Based on Vacuum
route:	LD50	>5000	mg/kg	Rai	Oral Toxicity)	residue
Acute toxicity, by dermal	LD50	> 2000	mg/kg	Rabbit	OECD 402 (Acute	Based on Vacuum
route:	LD30	2000	ilig/kg	Nabbit	Oral Toxicity)	residue
Acute toxicity, by	LC50	>5,7	mg/l/4 h	Rat	OECD 403 (Acute	Based on oxidised
inhalation:	2000	50,7	1119/1/11	Tat	Inhalation Toxicity)	Bitumen
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
				T (abbit	Dermal	Trot militaine
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation					Eye	
•					Irritation/Corrosion)	
Respiratory or skin					OECD 406 (Skin	Not sensitizing
sensitisation:					Sensitisation)	Based on Vacuum
						residue
Germ cell mutagenicity:				Mammalian	OECD-equivalent	Positive
				-Animal	474	Based on oxidised
				In Vitro		Bitumen
Germ cell mutagenicity				Non-	OECD-	Positive
				mammalian	471	Based on Bitumen
				species		
				In Vitro	0.505	
				Unspecified	OECD-equivalent	Negative
				In vivo	474	Based on oxidised
				1	NI. C. C.L.P.	Bitumen
				In vivo	Not guideline	Negative
Carcinogenicity:						Based on Bitumen
•						
Reproductive toxicity:						
Specific target organ						Not classified
toxicity - single exposure						
(STOT-SE)						
Specific target organ						Not classified
toxicity - repeated						
exposure (STOTRE)						
Aspiration hazard:						
Respiratory tract irritation:						
respiratory tract irritation.						

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

SECTION 12: Ecological information

Possibly more information on health effects, see Section 2.1 (classification).

Corabit-Armierungsbahn; Toxicity/effect Endpoint Time Test method Value Unit | Organism Notes Toxicity to fish: n.d.a. Toxicity to daphnia: n.d.a. Toxicity to algae: n.d.a. Persistence and n.d.a. degradability: Bioaccumulative n.d.a. potential: Mobility in soil: n.d.a. Results of PBT and n.d.a. vPvB assessment Other adverse effects: n.d.a.

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Asphalt							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to Microorganism:	LL50	40 h	>1000	mg/l			Growth inhibition
Toxicity to Algae:	EL50	72 h	>1000	mg/l			(growth rate)
Toxicity to fish:	LL50	96 h	>1000	mg/l			Mortality
Toxicity to Microorganism:	NOEL	40 h	>1000	mg/l			growth inhibition
Toxicity to daphnia:	LL50	48h	>1000	mg/l			Mortality
Toxicity to fish:	LL50	28 d	>1000	mg/l			Mortality
Toxicity to fish:	NOEL	28 d	>1000	mg/l			Mortality
Toxicity to daphnia:	NOEL	21 d	>1000	mg/l			Reproduction
Persistence and degradability:							Not determined
Bioaccumulative potential:							Not determined
Mobility in soil:							Spillages are unlikely to penetrate the soil
Results of PBT and vPvB assessment							No

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC) 17 03 02 bituminous mixtures other than those mentioned in 17 03 01

Recommendation:

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

Recycling

SECTION 14: Transport information

General statements

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

SECTION 15: Regulatory information

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

For classification and labeling, see Section 2.

Observe restrictions n.a. VOC (1999/13/EC) n.a.

Hazard class for water (Germany) not classified

Self-imposed classification n.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: whole safety data sheet

Any abbreviations and acronyms used in this document:

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ADR Accord europeen relatif au transport international des marchandises Dangereuses par Route (= European

Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety,

Germany)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and

packaging of substances and mixtures) carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

DT50 Dissipation Time - 50% reduction of start concentration

dw dry weight

CMR

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European list of Notified Chemical Substances

EN english

EU European Union

EWC European Waste Catalogue

GHS Globally Harmonized System of Classification and Labelling of Chemicals

IATA International Air Transport Association

IMDG-code International Maritime Code for Dangerous Goods IUCLID International Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical

LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

n.a. not applicable

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

OECD Organisation for Economic Co-operation and Development

PBT persistent, bioaccumulative and toxic PNEC Predicted No Effect Concentration

ppm parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning

the Registration, Evaluation, Authorisation and Restriction of Chemicals)

RID Reglement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation

concerning the International Carriage of Dangerous Goods by Rail)

Tel. Telephone

vPvB very persistent and very bioaccumulative

WE.L-TWA, WEL-STEL WEL-TWA = Workplace Exposure limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure limit - Short-term exposure lim it (1 5-minute reference period) (EH40, UK).

These statements are made by:

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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.