



SAFETY DATA SHEET

according to 1907/2006/EG, Article 31

Product: **Rephalt 0/2, 0/4, 0/8, 0/11**

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revised on: 14.11.23
replaces version: 19.10.20

SECTION 1 Designation of the substance or mixture and of the company

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1.1 Product identifier

Trade name: Rephalt 0/2, 0/4, 0/8, 0/11
UFI: Not applicable for this mixture

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

Relevant identified use: Reactive cold mix for asphalt restoration
Uses advised against: No data available

1.3 Details of the supplier providing the safety data sheet

Manufacturer/supplier:
Company
VIALIT ASPHALT GesmbH & Co KG
Reiterstrasse 78
A - 5280 Braunau/ Inn

Telephone: +43 (0)7722/ 62977 - 0
Fax: +43 (0)7722/ 65758

Department providing information: Laboratory department, telephone: +43 (0)7722/ 62977 - 44;
Qualitaet@vialit.at

This number is only manned during office hours.

1.4 Emergency information

For Austria: Poisoning Information Centre, telephone: +43 (0)1/ 4064343

SECTION 2 Possible hazards

2.1 Classification according to Regulation 1272/2008/EG (CLP)

Information concerning particular hazards for humans:
The product is classified as harmless to humans.

Information concerning particular hazards for the environment:
The product is classified as non-hazardous to the environment.

H-sets: not applicable
P-sets: not applicable

Other information

Full text of the codes, hazard statements and EU hazard statements in SECTION 16.

2.2 Labelling elements (Regulation 1272/2008/EC (CLP))

Labelling not applicable.

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2.3 Other hazards

PBT: not applicable.
vPvB: not applicable.
Endocrine disrupting properties: not applicable

SECTION 3 Composition/ information on ingredients

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3.1 Materials

Not applicable, product is a mixture

3.2 Mixture

Hazardous ingredients: The product does not contain any quantities of hazardous substances relevant for classification.

SECTION 4 First-aid measures

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4.1 Description of first aid measures

General information:

Always assess the safety of the accident site before attempting to rescue casualties and provide first aid.

After inhalation:

Not relevant

After contact with skin:

Clean with soap and water.

After contact with eyes:

Rinse with water for a few minutes with the eyelids open.

After ingestion:

Consult a doctor if symptoms persist.

Self-protection of the first aider:

No special instructions required.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Information on immediate medical assistance or specialised treatment

No information available

SECTION 5 Firefighting measures

5.1 Extinguishing agent

Suitable extinguishing agents:

Foam, powder, water in spray jet

Unsuitable extinguishing agents:

Full water jet

5.2 Special hazards arising from the substance or mixture.

Carbon monoxide, carbon dioxide, nitrogen oxides and other hazardous decomposition products may be formed during combustion.

5.3 Instructions for firefighting

Special firefighting procedures:
No special procedures required.

Special protective equipment for firefighting:
Use self-contained breathing apparatus.

SECTION 6 Measures in the event of accidental release

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6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves to avoid contamination by the bituminous binder.

6.2 Environmental protection measures

Not relevant for this product.

6.3 Methods and material for retention and cleaning

Pick up with a shovel and dispose of.
Cleaning can be carried out with biodiesel or similar cleaning agents.

6.4 Reference to other sections

See Section 13 for information on disposal.

SECTION 7 Handling and storage

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7.1 Protective measures for safe handling

Measures for preventing fires:

Keep away from direct sources of ignition.

Measures for preventing aerosol and dust formation:

Not relevant for this product.

Measures for protecting the environment:

Not relevant for this product.

Advice on general hygiene in the workplace:

Keep away from food and drink, do not eat, drink or smoke while working;
Wash hands before breaks and after work

7.2 Conditions for safe storage in consideration of incompatibilities

Technical measures and storage conditions:
Dry storage

Packaging materials:
Original container

Requirements for storage rooms and containers:
Keep material closed, it hardens in the air.

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Storage instructions:
No known intolerances.

Storage class:
11 according to VCI

Substances to be avoided:
Water causes product to harden prematurely

Further information on storage conditions
Keep material well sealed.

7.3 Specific end uses

Specific use(s): 1.2; no further relevant information available.

SECTION 8 Exposure controls / personal protective equipment

8.1 Parameters to be monitored

Material name: Bitumen
CAS no.: 8052-42-4

DNEL values workers
Long-term exposure - systemic effects:
Inhalative DNEL 2.88 mg/m³

8.2 Exposure controls and monitoring

Suitable technical control equipment:
No special requirements

Personal protective equipment:

Eye protection:	Not required
Skin protection:	Suitable work clothing
Hand protection:	Work gloves
Respiratory protection:	Not required

Limitation and monitoring of environmental exposure:
Not applicable

SECTION 9 Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Aggregate state	solid
Colour	black
Odour	bitumen
Melting point/freezing point	n/a
Boiling point or start of boiling and boiling range	> 200 °C
Flammability	yes
Lower explosion limit	n/a
Upper explosion limit	n/a
Flash point	> 200 °C
Ignition temperature	n/a
Decomposition temperature	n/a
pH value	n/d
Kinematic viscosity	n/a
Solubility	only slightly miscible with water
Partition coefficient n-octanol/water (log value)	n/a
Vapour pressure	n/a
Density and/or relative density	2 – 2.5 kg/m ³
Relative vapour density	n/a
Particle properties	n/d

n/d = not determined n/a = not applicable

9.2 Other informationFlammable solids A2_{fl}-s1 according to EN 13501-1:2007+A1:2009**SECTION 10 Stability and reactivity**

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10.1 Reactivity

No hazardous reactions are to be expected if used as intended.

10.2 Chemical stability

The product is stable under normal ambient conditions and under the temperature and pressure conditions to be expected during storage and handling.

10.3 Possibility of hazardous reactions

No hazardous reactions known if handled as directed.

10.4 Conditions to avoid

No conditions known to be avoided if handled as directed.

10.5 Incompatible materials

No incompatible materials known, if handled as directed.

10.6 Hazardous decomposition products

No hazardous decomposition products known, if handled as directed and moderately heated.

SECTION 11 Toxicological information
11.1 Information on toxicological effects

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Acute toxicity:

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

Bitumen:

Acute oral: LD50 rat
Dose: > 5,000 mg/kg
Method: OECD 401
Test substance: 64741-56-6

Acute inhalative: LC50 rat
Dose: > 94.4 mg/m3
Method: OECD 403
Test substance: Bitumen, vapour aerosol

Acute dermal: LD50 rabbit
Dose: > 2,000 mg/kg
Method: OECD 402
Test substance: 64741-56-6

Repeated dose toxicity:

NOAEC inhalative
Dose: 103.9 mg/m3 (systemic);
Method: OECD 413
Test substance: Mixture of 64742-93-4 and 64741-56-6, Form: Aerosol of oxidised bitumen vapour condensate; Based on available data, the product is not classified for specific target organ toxicity at repeated exposure.

NOAEL dermal; dose: >=2000 mg/kg/day (systemic);
Method: OECD 410, test substance: 64741-56-6, form: semi-solid;

Corrosive/irritant effect on the skin:

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

Severe eye damage/irritation:

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

Sensitisation of the respiratory tract/skin:

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

Bitumen:

Sensitisation of the skin Guinea pig
Result: not sensitising
Method: OECD 406
Test substance: 64741-56-6
Form: semi-solid;

Germ cell mutagenicity:

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

Bitumen:

Genotoxicity in vitro Ames test
Result: negative with metabolic activation
Method: modified Ames test according to ASTM E 1687
Test substance: 8052-42-4

Carcinogenicity:

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

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Bitumen:

Carcinogenic effect

rat
Test substance: Mixture of 64742-93-4 and 64741-56-6
Method: OECD 451
Inhalation;
NOAEC (carcinogenic): > 103.9 mg/m³
Chronic

Mouse
Test substance: 8052-42-4
Method: OECD 453
dermal
Result: negative
Chronic

Reproductive toxicity:

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

Bitumen:

Reproductive toxicity/fertility:

Test substance: Asphalt, oxidised
Method: OECD 422
NOAEC inhalation: 300 mg/m³ (CSA) Form: Vapour condensate;

Reproductive toxicity/teratogenicity:

Test substance: Asphalt, oxidised
Method: OECD Guideline 422
NOAEC; Dose 300 mg/m³ (subchronic rat) Inhalation; Form: Vapour condensate;

Specific target organ toxicity at single exposure:

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

Specific target organ toxicity with repeated exposure:

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

Danger of aspiration:

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

11.2 Further information:

The classification was carried out according to the calculation method of the Preparations Directive.

SECTION 12 Environmental information**12.1 Toxicity**

No further relevant data available

Bitumen:

Acute toxicity in fish:

LL50
Species: *Oncorhynchus mykiss* (rainbow trout)
Dose: > 1,000 mg/l
Exposure time: 96 h
Test substance: Oxidised bitumen
Method: QSAR

Acute toxicity to aquatic invertebrates:

LL50
Species: *Daphnia magna* (large water flea)
Dose: > 1,000 mg/l
Exposure time: 48 h
Test substance: Oxidised bitumen
Method: QSAR

Toxicity to algae and aquatic plants:

EL50
Species: *Pseudokirchnerella subcapitata*
Dose: > 1,000 mg/l
Exposure time: 72 h
Test substance: Oxidised bitumen
Method: (Q)SAR

Toxicity to microorganisms:

LL50
Species: *Tetrahymena pyriformis*
Dose: > 1,000 mg/l
Exposure time: 40 h
Test substance: Oxidised bitumen
Method: QSAR

Fish toxicity (chronic toxicity):

LL50
Species: *Oncorhynchus mykiss* (rainbow trout)
Dose: > 1,000 mg/l
Exposure time: 28 h
Test substance: Oxidised bitumen
Method: QSAR

Toxicity to daphnia and others

Aquatic invertebrates (chronic toxicity): NOEL

Species: *Daphnia magna*
Dose: > 1,000 mg/l
Exposure time: 21 h
Test substance: Oxidised bitumen
Method: QSAR**12.2 Persistence and degradability****Bitumen**

Not readily biodegradable.

12.3 Bioaccumulative potential**Bitumen**

Bioaccumulation is unlikely due to the high molecular weight.

Bioaccumulative potential (partition coefficient (n-octanol/water)): no data available

12.4 Mobility in soil

No further relevant data available

12.5 Results of the PBT and vPvB assessment

No further relevant data available

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12.6 Endocrine disrupting properties

No further relevant data available

12.6 Other adverse effects

Water hazard class 1 (according to calculation rule for preparations AwSV)

SECTION 13 Notes on disposal

Product: Do not dispose of via household waste or sewer, hand over to a hazardous waste collector.

Packaging: Disposal in accordance with official regulations.

Waste code: ÖNORM 2100, code number 54 912
EN waste catalogue: 17 03 02

SECTION 14 Transport details

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard classes

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for the user

Not applicable.

14.7 Transport of bulk cargo by sea in accordance with IMO instruments

Not applicable.

SECTION 15 Legal regulations**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

REACH Regulation (EC) No. 1907/2006 as amended
CLP Regulation (EC) No 1272/2008 as amended
Water hazard class (Germany): WgK 1 (slightly hazardous to water)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

SECTION 16 Other information

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The information is based on the current state of knowledge and experience. This data sheet describes products with regard to safety requirements. The information does not have the meaning of a guarantee of properties.

Clear indication of changes:

Changes to the previous version are marked with the asterisk * in the right-hand margin.

Abbreviations and acronyms

(Q)SAR = Quantitative structure-activity relationship
ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR = Agreement on the International Carriage of Dangerous Goods by Road
AGW = limit value for exposure at the workplace
ASTM = International Standards Institute
ATE = acute toxicity estimate
AwSV = Ordinance on Installations for Handling Substances Hazardous to Water
BCF = bioconcentration factor
BGW = biological limit value
CAS No. = Chemical Abstracts Service Number
CLP = classification, labelling and packaging
Classification, labelling and packaging
CMR = carcinogen, mutagen or reproductive toxin
CSA = chemical safety assessment
CSR = chemical safety report
DMEL = derived exposure level with minimal impairment
DNEL = derived exposure level without impairment
EC50 = The effective concentration of a substance that causes 50% of the maximum possible reaction.
EC number = EINECS and ELINCS number (see also EINECS and ELINCS)
EINECS = European Inventory of Existing Commercial Substances
EL50 = effective level 50%
IATA = International Air Transport Association
IC50 = inhibitory concentration 50%
ICAO-TI = Technical Instructions for the Carriage of Dangerous Goods by Air
IMDG = International Maritime Dangerous Goods Code
Kow = octanol-water partition coefficient
Koc = organic soil carbon to water partition coefficient
LC50 = lethal concentration for 50% of a test population
LD50 = lethal dose for 50% of a test population (median lethal dose)
LGK = storage class
LL50 = lethal load 50%
LOAEC = lowest concentration with observable adverse effect
LOAEL = lowest observed adverse effect level
MAK = maximum workplace concentration
NOAEC = concentration with no observable adverse effect
NOAEL = dose with no observable adverse effect
NOEC = highest exposure concentration of a substance without observed effects
NOEL = highest dose of a substance with no observed effects
OECD = Organisation for Economic Co-operation and Development
PBT = persistent, bioaccumulative and toxic substance
PEC = estimated effect concentration

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PNEC = estimated no-effect concentration
RID = Regulations on the International Carriage of Dangerous Goods by Rail
QSAR = Quantitative/Qualitative Structure-Effect Relationship
SVHC = substances of very high concern
STEL = maximum workplace concentration (MAK) - short-term value
TLV = maximum workplace concentration (MAK)
TRGS = Technical Rules for Hazardous Substances
TWA = maximum workplace concentration (MAK) - daily average value
UVCB = substances with unknown or variable composition, complex reaction products and biological materials
VCI = German Chemical Industry Association
vPvB = very persistent and very bioaccumulative

Important literature references and data sources:

Information from our suppliers and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to prepare this safety data sheet.

Methods used for product categorisation:

The classification for health, physico-chemical and environmental hazards was derived from a combination of calculation methods and, if available, test data.

Full text of the H & P phrases referred to in items 2 and 3:

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Notes on training courses:

Workers must be regularly trained in the safe handling of the products based on the information in the safety data sheet and the local conditions of the workplace.
National regulations on the training of employees in the handling of hazardous substances must be observed.