EC SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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

1.1 Product identifier

Trade name: Rephalt 0/2, 0/4, 0/8, 0/11

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

Application**:** Reactive cold mix

1.3 Details of the supplier of the safety data sheet

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

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

Product information: Laboratory, tel.: +43 - 7722/ 62977 - 44 Qualitaet@vialit.at (Only at office hour)

1.4 Emergency telephone number: poisoning information office, tel.: +43 - 1/ 4064343 **(Please contact the regional company representation in your country)**

2 Hazards identification

2.1 Classification according to the Regulation (EC) No 1272/2008 (GHS)

This substance is not classified as dangerous according to European Union legislation.

2.2 Label elements

Labelling (Regulation (EC) No 1272/2008)
Not a dangerous substance according to GHS.

2.3 Other hazards

None known.

3 Composition / information on ingredients.

Chemical characterisation: Mixture (Reactive curing cold mix asphalt).
The product does not contain any relevant quantities of hazardous materials.

4 First aid measures

4.1 Description of first aid measures

General advice:
First aider needs to protect himself.
Skin contact:
Rinse with water and soap.
Eye contact:
Rinse out for several minutes with the eyelid open and consult a doctor.
Ingestion:
If complaints persist get medical attention.
Information for the doctor:
Not relevant

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

No information available

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Foam, powder, water spray
Extinguishing media which must not be used for safety reasons:
Full stream of water

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special fire-fighting procedures:
No special procedures necessary.

Special protective fire-fighting equipment:
Stay in danger area only with self-contained breathing apparatus.

Further information
No information available

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Observe usual precautions.

6.3 Methods and materials for containment and cleaning up

Collect mechanically

6.4 Reference to other sections

Indications about waste treatment see section 13

7 Handling and storage

7.1 Precautions for safe handling

Observe usual precautionary measures when using.

Advice on protection against fire and explosion
Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep material well closed, material cures by exposure to air.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 Exposure controls / personal protection

8.1 Control parameters

Bitumen (when hot usage):
DNEL values
Worker
Long-term exposure - systemic effects:
Inhaled DNEL 2.9 mg / m³

8.2 Exposure controls

Additional information for system design:
No special requirements

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

Respiratory protection:	Not required
Hand protection:	Working gloves
Eye protection:	Not required
Body protection:	Suitable work clothing

Monitoring of environmental exposure: Not applicable

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	mineral – binder - mix
Colour:	black
Odour:	slightly bitumen-like

Relevant data for safety:

Boiling point [°C]:	not applicable
Flash point [°C]:	> 200
Inflammability [°C]:	no data available
Fire promoting properties [°C]:	product is not oxidizing
Danger of explosion [°C]:	product is not explosive
pH - value:	not applicable
Vapour pressure at 20 °C [mbar]:	no data available
Density at 25 °C [g/ cm^3]:	2 – 2,5
Solubility in water at 20 °C:	not soluble
Solubility in fat at 20 °C:	good solubility of the binder
Dynamic viskosity at bei 20 °C [mPas]:	not applicable

9.2 Other data

No information available

10 Stability and reactivity

10.1 Reactivity

When used as intended, no dangerous reactions are expected.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions.

10.3 Possibility of hazardous reactions

No information available

10.4 Conditions to avoid

No information available

10.5 Incomptible materials

No information available

10.6 Hazardous decomposition products

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

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11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:
No data is available for the product itself.

Bitumen:

Acute Oral:	LD50 rat Dose:> 5,000 mg / kg Method: OECD 401 Test substance: 64741-56-6
Acute inhalation:	LC50 rat Dose:> 94.4 mg / m3 Method: OECD 403 Test substance: bitumen, steam aerosol
Acute dermal:	LD50 rabbit Dose:> 2,000 mg / kg Method: OECD 402 Test substance: 64741-56-6
Repeated dose toxicity:	NOAEC (inhalation) dose: 103,9 mg/m3 (systemic); method: OECD 413; test substance: blend of 64742-93-4 and 64741-56-6,Form: Aerosol of condensed vapours of oxidized bitumen;,Based on the available data the product is not classified with respect to specific target organ toxicity - repeated exposure. NOAEL dermal; Dose: >=2000 mg/kg/day (systemic); Method: OECD 410, Test substance: 64741-56-6, Form: semi-solid;

Skin corrosion / irritation:
No relevant information available.

Serious eye damage / irritation:
No relevant information available.

Respiratory / skin sensitization:
No relevant information available.

Bitumen:

Skin sensitisation	guinea pig Result: not sensitising Method: OECD 406 Test substance: 64741-56-6 Form: semi-solid; Based on the available data, the product is not classified as sensitising.

Germ cell mutagenicity:
No relevant information available.

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:
No relevant information available.

Bitumen:

Carcinogenic effect	rat Test substance: Mixture of 64742-93-4 and 64741-56-6 Method: OECD 451 inhalation; NOAEC (carcinogenicity): > 103,9 mg/m³ chronic mouse Test substance: 8052-42-4 Method: OECD 453 dermal Result: negative chronic

Reproductive toxicity:
No data is available for the product itself.

Bitumen:

Reproduction toxicity/fertility	Test substance: Asphalt, oxidized Method: OECD 422 NOAEC inhalative: 300 mg/m3 (CSA) Form: fume condensate
Reproduktionstoxizität/Teratogenität:	Test substance: Asphalt, oxidized Method: OECD Guideline 422 NOAEC; Dose: 300 mg/m3 (subchronic rat) inhalation; Form: fume condensate

Specific target organ toxicity - single exposure:
No relevant information available.

Specific target organ toxicity - repeated exposure:
No relevant information available.

Aspiration hazard:
No relevant information available

11.2 Further information

The classification was made according to the method of calculation for the preparation guideline.

12 Ecological information

12.1 Toxicity

This product has been classified as non-eco-toxic according to the calculation method.

Bitumen:

Acute toxicity in fish:	LL50 Species: Oncorhynchus mykiss (rainbow trout) Dose:> 1,000 mg / l Exposure time: 96 h Test substance: oxidized bitumen Method: QSAR
Acute toxicity in aquatic invertebrates:	LL50 Species: Daphnia magna (large water flea) Dose:> 1,000 mg / l Exposure time: 48 h Test substance: oxidized bitumen Method: QSAR
Toxicity to algae and aquatic plants:	EL50 Species: Pseudokirchnerella subcapitata Dose:> 1,000 mg / l Exposure time: 72 h Test substance: oxidized bitumen Method: (Q) SAR
Toxicity to microorganisms:	LL50 Species: Tetrahymena pyriformis Dose:> 1,000 mg / l Exposure time: 40 h Test substance: oxidized bitumen Method: QSAR
Fish toxicity (chronic toxicity):	LL50 Species: Oncorhynchus mykiss (rainbow trout) Dose:> 1,000 mg / l Exposure time: 28 d Test substance: oxidized bitumen Method: QSAR
Toxicity to daphnia and others aquatic invertebrates (chronic toxicity):	NOEL Species: Daphnia magna Dose:> 1,000 mg / l Exposure time: 21 d Test substance: oxidized bitumen Method: QSAR

12.2 Persistence and degradability

No data available

Bitumen: not easily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Water hazard class: 1 [accordance AwSV].

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13 Disposal considerations

Product: Disposal in accordance with official regulations.
Packaging: Disposal in accordance with official regulations.
Waste code: ÖNORM 2100, Code No. 54 912
EN-Number 17 03 02

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14 Transport information

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport classes

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

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15 Regulatory information

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

For this product, a chemical safety assessment was not carried out.

16 Other information

This information is based on our present state of knowledge and experience. This datasheet describes products in regard to safety requirements. However, it should not be regarded as constituting a guarantee for any specific product properties.

The asterisk (*) in the right margin indicates changes from the previous version.

The full wording of the R phrases to which reference is made in Points 2 and 3:

Responsible Department: Laboratory, ext. 44