

**Safety Data Sheet**  
**RASCO 2K BITUMEN REACTIVE SEALANT comp. B**

**Safety Data Sheet dated 3/4/2017, version 3**

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

1.1. Product identifier

Trade name: RASCO 2K BITUMEN REACTIVE SEALANT comp. B

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

Recommended use:

Bitumen emulsion catalyst

Uses advised against:

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1.3. Details of the supplier of the safety data sheet

Supplier:

Rasco Bitumentchnik GmbH, Otto-von-Guericke-Ring 11, D-65205 Wiesbaden, Germany

Factory:

Rasco Bitumentchnik GmbH, Imkerweg 32b, D-32832 Augustdorf, Germany

Competent person responsible for the safety data sheet:

rasco@bitumentchnik.de

1.4. Emergency telephone number

Rasco Bitumentchnik GmbH, Imkerweg 32b, D-32832 Augustdorf, Germany

phone: +49-05237 608 0

fax: +49-05237 608 210

www.rasco-bitumen.com (office hours)

Poison center: +49(0)30 30686 790

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

⚠ Warning, Skin Irrit. 2, Causes skin irritation.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

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Hazard Statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Precautionary Statements:

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

**SECTION 3: Composition/information on ingredients**

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

- >= 10% - < 20% calcium nitrate  
CAS: 13477-34-4, EC: 233-322-1
- ⚠ 2.13/2 Ox. Liq. 2 H272
- ⚠ 3.3/2 Eye Irrit. 2 H319
- ⚠ 3.2/2 Skin Irrit. 2 H315

**SECTION 4: First aid measures**

4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
- Wash thoroughly the body (shower or bath).
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.
- Wash immediately with water for at least 10 minutes.

In case of Ingestion:

- Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
- A suspension of activated charcoal in water, or petroleum jelly may be administered.
- Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician

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immediately and present this safety-data sheet.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

**SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media:

Water.

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

The product does not present a fire hazard

Do not inhale explosion and combustion gases.

The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Limit leakages with earth or sand.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Rapidly recover the product, wearing protective clothing.

After the product has been recovered, rinse the area and materials involved with water.

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals

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in the containers. (see point 10.5)  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Store above 5°C.

7.3. Specific end use(s)

None in particular

**SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Safety goggles.

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Appearance:	liquid
Colour:	colorless
Odour:	odourless
Odour threshold:	N.A.
pH:	5-7
Melting point / freezing point:	N.A.

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Initial boiling point and boiling range: ca. 100 °C  
 Solid/gas flammability: N.A.  
 Upper/lower flammability or explosive limits: N.A.  
 Vapour density: N.A.  
 Flash point: N.A.  
 Evaporation rate: N.A.  
 Vapour pressure: N.A.  
 Relative density: N.A.  
 Vapour density (air=1): N.A.  
 Solubility in water: N.A.  
 Solubility in oil: N.A.  
 Viscosity: < 100 mPa.s (23°C)  
 Auto-ignition temperature: N.A.  
 Explosion limits(by volume): N.A.  
 Decomposition temperature: N.A.  
 Partition coefficient (n-octanol/water): N.A.  
 Explosive properties: N.A.  
 Oxidizing properties: N.A.

9.2. Other information

Miscibility: N.A.  
 Fat Solubility: N.A.  
 Conductivity: N.A.  
 Substance Groups relevant properties N.A.

**SECTION 10: Stability and reactivity**

- 10.1. Reactivity  
 Stable under normal conditions  
 10.2. Chemical stability  
 Stable under normal conditions  
 10.3. Possibility of hazardous reactions  
 None  
 10.4. Conditions to avoid  
 Stable under normal conditions.  
 10.5. Incompatible materials  
 None in particular.  
 10.6. Hazardous decomposition products  
 None.

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects  
 Route(s) of entry:  
 Ingestion: Yes  
 Inhalation: No  
 Contact: No  
 There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.  
 Toxicological information on main components of the mixture:  
 Toxicological information of the product:  
 N.A.  
 Toxicological information of the main substances found in the product:  
 N.A.  
 Corrosive/Irritating Properties:  
 Eye:  
 The product can cause a temporary irritation by contact.

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Carcinogenic Effects:

No effects are known.

Mutagenic Effects:

No effects are known.

Teratogenic Effects:

No effects are known.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**SECTION 12: Ecological information**

12.1. Toxicity

Adopt good industrial practices, so that the product is not released into the environment.

Not available data on the mixture

Biodegradability: no data available on the preparation.

N.A.

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

Not available data on the mixture

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

**SECTION 14: Transport information**

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

UN Number: no dangerous good

14.2. UN proper shipping name

IMDG-Technical name: no dangerous good

N.A.

14.3. Transport hazard class(es)

Rail/Road(RID/ADR): no dangerous good

ADR-Upper number: NA

N.A.

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- 14.4. Packing group  
N.A.
- 14.5. Environmental hazards  
Marine pollutant: No  
N.A.
- 14.6. Special precautions for user  
IMDG-Technical name: no dangerous good  
N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
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**SECTION 15: Regulatory information**

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
Restrictions related to the product:  
Restriction 3  
Restrictions related to the substances contained:  
No restriction.
- Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I - Protection against chemical agents"  
Directive 2000/39/CE and s.m.i. (Professional threshold limit)  
Legislative Decree no. 152 of the 3rd of April 2006 and subsequent modifications and additions. (Environmental regulations)  
Directive 105/2003/CE (Seveso III): N.A.  
ADR Agreement – IMDG Code – IATA Regulation  
VOC (2004/42/EC) : N.A. g/l
- Provisions related to directive EU 2012/18 (Seveso III):  
N.A.
- 15.2. Chemical safety assessment  
No

**SECTION 16: Other information**

- Text of phrases referred to under heading 3:  
H272 May intensify fire; oxidiser.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.
- Paragraphs modified from the previous revision:
- SECTION 2: Hazards identification  
SECTION 4: First aid measures  
SECTION 5: Firefighting measures

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SECTION 6: Accidental release measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 14: Transport information  
SECTION 15: Regulatory information  
SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances  
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LTE: Long-term exposure.  
PNEC: Predicted No Effect Concentration.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STE: Short-term exposure.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
OEL: Substance with a Union workplace exposure limit.  
VLE: Threshold Limiting Value.  
WGK: German Water Hazard Class.  
TSCA: United States Toxic Substances Control Act Inventory



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DSL: DSL - Canadian Domestic Substances List  
N.A.: Not available