

**Safety Data Sheet**  
**RASCO BITUMENSPRITZMASSE**

**Safety Data Sheet dated 9/7/2018, version 4**

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

1.1. Product identifier

Trade name: RASCO BITUMENSPRITZMASSE

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

Recommended use:

Water-borne bitumen

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 700

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard Statements:

None

Precautionary Statements:

None

Special Provisions:

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EUH210 Safety data sheet available on request.

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).  
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:  
>= 1% - < 2.5% 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts

REACH No.: 01-2119488533-30-xxxx, CAS: 97862-59-4, EC: 931-296-8

⚠ 3.3/1 Eye Dam. 1 H318

4.1/C3 Aquatic Chronic 3 H412

>= 0.01% - < 0.05% free crystalline silica ( $\varnothing > 10 \mu$ )

CAS: 14808-60-7, EC: 238-878-4

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

**SECTION 4: First aid measures**

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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 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

No specific hazards are encountered under normal product use.

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

Treatment:

(see paragraph 4.1)

**SECTION 5: Firefighting measures**

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- 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  
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.  
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

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

8.1. Control parameters

free crystalline silica ( $\text{Ø} > 10 \mu$ ) - CAS: 14808-60-7  
ACGIH - TWA(8h): 0.025 mg/m<sup>3</sup> - Notes: (R), A2 - Pulm fibrosis, lung cancer  
TRGS -- Country: GERMANY - Notes: 50  $\mu\text{g}/\text{m}^3$  (Partikel Durchmesser < 12  $\mu\text{m}$ ) -  
TRGS 906

DNEL Exposure Limit Values

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N dimethyl-, N-C8-18(even numbered) acyl  
derivs., hydroxides, inner salts - CAS: 97862-59-4  
Worker Industry: 44 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term,  
systemic effects  
Worker Industry: 12.5 mg/kg - Consumer: 7.5 mg/kg - Exposure: Human Dermal -  
Frequency: Long Term, systemic effects  
Consumer: 7.5 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N dimethyl-, N-C8-18(even numbered) acyl  
derivs., hydroxides, inner salts - CAS: 97862-59-4  
Target: Marine water - Value: 0.00135 mg/l  
Target: Fresh Water - Value: 0.0135 mg/l  
Target: Marine water sediments - Value: 0.1 mg/kg  
Target: Freshwater sediments - Value: 1 mg/kg  
Target: Soil (agricultural) - Value: 0.8 mg/kg  
Target: Microorganisms in sewage treatments - Value: 3000 mg/l

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.  
Not needed for normal use.

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:	paste
Colour:	black
Odour:	typical
Odour threshold:	N.A.
pH:	11

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Melting point / freezing point: == °C  
 Initial boiling point and boiling range: == °C  
 Solid/gas flammability: ==  
 Upper/lower flammability or explosive limits: N.A.  
 Vapour density: Not determined  
 Flash point: == °C  
 Evaporation rate: Not determined  
 Vapour pressure: Not determined  
 Relative density: 1 g/cm<sup>3</sup> (23°C)  
 Vapour density (air=1): Not determined  
 Solubility in water: dispersible  
 Solubility in oil: N.A.  
 Viscosity: 75000 mPa.s (23°C)  
 Auto-ignition temperature: === °C - No explosive or spontaneous ignition in contact with air at room temperature  
 Explosion limits(by volume): ===  
 Decomposition temperature: N.A.  
 Partition coefficient (n-octanol/water): N.A. - This product is a mixture  
 Explosive properties: === - No components with explosive properties  
 Oxidizing properties: N.A. - No component with oxidizing properties

9.2. Other information

No additional information

**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.

The following tests refer to a mixture with a similar composition

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:

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts - CAS: 97862-59-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2335 mg/kg

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- Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
- e) germ cell mutagenicity:  
Route: Oral = 1000 mg/kg
- i) STOT-repeated exposure:  
Test: map1 - Route: Oral - Species: Rat = 300 mg/kg  
free crystalline silica ( $\text{Ø} > 10 \mu$ ) - CAS: 14808-60-7
- a) acute toxicity:  
Test: LD50 - Route: Oral > 2000 mg/kg  
Test: LD50 - Route: Skin > 2000 mg/kg

**Corrosive/Irritating Properties:**

**Eye:**

The product can cause a temporary irritation by contact.

**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.

Biodegradability: no data available on the preparation.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts - CAS: 97862-59-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1.1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1.9 mg/l - Duration h: 48

Endpoint: NOEC - Species: Algae = 0.6 mg/l - Duration h: 72

d) Terrestrial toxicity:

Endpoint: NOEC > 846 mg/kg - Notes: 14 d

e) Plant toxicity:

Endpoint: NOEC = 84.4 mg/kg - Notes: 17 d

**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**

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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.

Disposal of hardened product (EC waste code) : 08 04 10

Disposal of not hardened product (EC waste code) : 08 04 10

The suggested European waste code is just based on the composition of the product.

According to the specific process or application field a different waste code may be necessary.

**SECTION 14: Transport information**

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

UN Number: ==

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

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

ADR-Upper number: NA

Air (ICAO/IATA): no dangerous good

Sea (IMO/IMDG): no dangerous good

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

Marine pollutant: No

N.A.

14.6. Special precautions for user

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:

No restriction.

Restrictions related to the substances contained:

No restriction.

Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I -

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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  
Wassergefährdungsklasse (WGK): 1  
VOC (2004/42/EC) : N.A. g/l

Provisions related to directive EU 2012/18 (Seveso III):  
Seveso III category according to Annex 1, part 1  
None

15.2. Chemical safety assessment  
No

**SECTION 16: Other information**

Text of phrases referred to under heading 3:  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.  
Paragraphs modified from the previous revision:

SECTION 2: Hazards identification  
SECTION 3: Composition/information on ingredients  
SECTION 4: First aid measures  
SECTION 5: Firefighting measures  
SECTION 6: Accidental release measures  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 11: Toxicological information  
SECTION 12: Ecological 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.



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