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

Revision date / version: 13.06.2017 / 0010

Replacing version dated / version: 07.03.2017 / 0009

Valid from: 13.06.2017 PDF print date: 13.06.2017 Radnaben-Paste 200 mL

Art.: 4058

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

1.1 Product identifier

Radnaben-Paste 200 mL

Art.: 4058

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

Lubricant

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 - Roller application or brushing

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH. Jerg-Wieland-Str. 4. 89081 Ulm-Lehr. Germany

Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification



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2.1 Classification of the substance or mixture

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

Hazard class Hazard category **Hazard statement**

Skin Irrit. H315-Causes skin irritation.

Eye Dam. 1 H318-Causes serious eye damage. Aerosol H222-Extremely flammable aerosol.

Aerosol 1 H229-Pressurised container: May burst if heated.

2.2 Label elements

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



Danger

H315-Causes skin irritation. H318-Causes serious eye damage. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P280-Wear protective gloves and eye protection / face protection. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible. Calcium dihydroxide

2.3 Other hazards

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 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. **3 2 Mixture**

| OLE MIXEU O | |
|-----------------------------|---|
| Calcium dihydroxide | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP | 215-137-3 |
| CAS | 1305-62-0 |
| content % | 10-<20 |



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| Classification according to Regulation (EC) 1272/2008 (CLP) | STOT SE 3, H335 |
|---|---------------------|
| | Skin Irrit. 2, H315 |
| | Eye Dam. 1, H318 |

| Distillates (petroleum), hydrotreated heavy paraffinic | |
|---|-------------------|
| Registration number (REACH) | |
| Index | 649-467-00-8 |
| EINECS, ELINCS, NLP | 265-157-1 |
| CAS | 64742-54-7 |
| content % | 1-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

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.

The following may occur:

Irritation of the eyes

Coughing

Dermatitis (skin inflammation)

Irritation of the skin.

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

Danger of explosion by prolonged heating.

Explosive vapour/air mixture

5.3 Advice for firefighters



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In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary. Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent) 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

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

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 feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special regulations for aerosols!

Observe special storage conditions.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters



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| Chemical Name | Calcium dihydrox | ide | | | Content %:10- <20 |
|---------------------------------|--------------------|------------------------------------|----------------------------|------------|----------------------|
| WEL-TWA: 5 mg/m3 (WEL-TWA), | 1 mg/m3 (9) (EU) | WEL-STEL: 4 mg/m3 (9) (EU) | | | |
| Monitoring procedures: | | ISO 15202 (Determination of metals | s and metalloids in airbor | ne partic | ulate matter by |
| | | inductive coupled plasma emission | spectrometry) - 2000(Pa | rt 1), 200 | 1(Part 2), 2004 |
| | = | (Part 3) | | | |
| | | DFG (E), DFG (D) (Alkali metal hyd | roxides and alkali earth h | nydroxide | es) - 2001, 1998 - |
| | = | EU project BC/CEN/ENTR/000/200 | | | |
| | | OSHA ID-121 (Metal and metalloid | particulates in workplace | atmosph | neres) - 2002 - EU |
| | = | project BC/CEN/ENTR/000/2002-16 | 6 card 42-4 (2004) | | |
| BMGV: | | | Other information: | | |
| Chemical Name | Propane | | | | Content %: |
| WEL-TWA: 1000 ppm (ACGIH) | • | WEL-STEL: | | | |
| Monitoring procedures: | = | Compur - KITA-125 SA (549 954) | | | |
| BMGV: | | | Other information: | | |
| Chemical Name | Butane | | | | Content %: |
| WEL-TWA: 600 ppm (1450 mg/m3 | 3) | WEL-STEL: 750 ppm (1810 m | g/m3) | | |
| Monitoring procedures: | - | Compur - KITA-221 SA (549 459) | | | |
| BMGV: | | | Other information: | | |
| Chemical Name | Titanium dioxide | | | | Content %: |
| WEL-TWA: 10 mg/m3 (total inhala | ble dust), 4 mg/m3 | WEL-STEL: | | | |
| (respirable dust) | , 3 | | | | |
| Monitoring procedures: | | | | | |
| BMGV: | | | Other information: | | |

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit Short-term exposure
- limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

| Calcium dihydroxide | | | | | | |
|---------------------|--|---------------------------|------------|-------|----------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 490 | μg/l | |
| | Environment - soil | | PNEC | 1080 | mg/kg dw | |
| | Environment - marine | | PNEC | 320 | μg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 490 | µg/l | |
| | Environment - sewage treatment plant | | PNEC | 3 | mg/l | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 4 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 1 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 4 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 1 | mg/m3 | |

| Distillates (petroleum), hydrotreated heavy paraffinic | | | | | | | | |
|--|--------------------|--------------------------|------------|-------|-------|------|--|--|
| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note | | |
| | Environmental | | | | | | | |
| | compartment | | | | | | | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 1,2 | mg/m3 | 24h | | |



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| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 5,4 | mg/m3 | 8h |
|---------------------|--------------------|--------------------------|------|-----|-------|----|

| Titanium dioxide | | | | | | |
|---------------------|--|-----------------------------|------------|--------|------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,184 | mg/l | |
| | Environment - marine | | PNEC | 0,0184 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,193 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1000 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 100 | mg/kg dw | |
| | Environment - soil | | PNEC | 100 | mg/kg dw | |
| | Environment - oral (animal feed) | | PNEC | 1667 | mg/kg feed | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 700 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m3 | |

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.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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 feedingstuffs.

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

Eye/face protection:

With danger of contact with eyes.

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:



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Normally not necessary.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

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

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid.

Colour: According to specification
Odour: Characteristic

Odour threshold:

PH-value:

Not determined

Not determined

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Not determined
Not determined
Not determined

Flash point:

Evaporation rate:

Not determined

Not determined

Not determined

Not determined

n.a.

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

Not determined

Not determined

Not determined

Not determined

Not determined

Bulk density: n.a.

Solubility(ies):
Water solubility:
Not determined
Partition coefficient (n-octanol/water):
Not determined
Auto-ignition temperature:
Not determined
Decomposition temperature:
Not determined
Viscosity:
Not determined

Explosive properties: Product is not explosive. Possible build up of explosive/highly

flammable vapour/air mixture.

No

9.2 Other information

Oxidising properties:

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined
Not determined
Not determined
Not determined
Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No decomposition if used as intended.



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10.4 Conditions to avoid

Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Radnaben-Paste 200 mL Art.: 4058 Toxicity / effect Endpoint Value Unit Organism Test method Notes Acute toxicity, by oral route: n.d.a. Acute toxicity, by dermal route: n.d.a. Acute toxicity, by inhalation: n.d.a. Skin corrosion/irritation: n.d.a. Serious eye damage/irritation: n.d.a. Respiratory or skin n.d.a. sensitisation: Germ cell mutagenicity: n.d.a. Carcinogenicity: n.d.a. Reproductive toxicity: n.d.a. Specific target organ toxicity n.d.a. single exposure (STOT-SE): Specific target organ toxicity n.d.a. repeated exposure (STOT-RE): Aspiration hazard: n.d.a. Symptoms: n.d.a. Other information: Classification according to calculation procedure.

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|-------|----------|--|--|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) | Notes |
| Acute toxicity, by dermal route: | LD50 | >2500 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2500 | mg/kg | Rabbit | Regulation (EC) 440/2008 B.3 (ACUTE TOXICITY (DERMAL) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Risk of serious damage to eyes. |
| Respiratory or skin sensitisation: | | | | | , | Not sensitizising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Carcinogenicity: | | | | Rat | | Negative, administered as Ca-lactate |
| Reproductive toxicity: | | | | Mouse | | Negative, administered as Ca-carbonate |



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| Symptoms: | | | breathing difficulties, abdominal pain, drowsiness, thirst, fever, sore throat, cornea opacity, coughing, headaches, mucous membrane |
|----------------------------------|--|--|--|
| | | | irritation, fatigue |
| Specific target organ toxicity - | | | Irritation of the |
| single exposure (STOT-SE), | | | respiratory tract |
| inhalative: | | | |

| Distillates (petroleum), hydrotreated heavy paraffinic | | | | | | | |
|--|----------|-------|---------|----------|---------------------------------|-------------------|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 420 (Acute Oral | | |
| | | | | | toxicity - Fixe Dose Procedure) | | |
| A | I DEO | 5000 | // | D 117 | , | | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute | | |
| | | | | | Dermal Toxicity) | | |
| Acute toxicity, by inhalation: | LC50 | 5,53 | mg/l/4h | Rat | OECD 403 (Acute | Aerosol | |
| | | | | | Inhalation Toxicity) | | |
| Skin corrosion/irritation: | | | | | , | Not irritant | |
| Serious eye damage/irritation: | | | | | | Slightly irritant | |
| Respiratory or skin | | | | | | Not sensitizising | |
| sensitisation: | | | | | | | |
| Aspiration hazard: | | | | | | Yes | |

| Propane | | | | | | |
|--------------------------------|----------|--------|---------|----------|------------------------|-----------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative |
| | | | | | Reverse Mutation Test) | |
| Reproductive toxicity | NOAEC | 21,641 | mg/l | | OECD 422 (Combined | |
| (Developmental toxicity): | | | | | Repeated Dose Tox. | |
| | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |
| Symptoms: | | | | | | breathing |
| | | | | | | difficulties, |
| | | | | | | unconsciousness |
| | | | | | | , frostbite, |
| | | | | | | headaches, |
| | | | | | | cramps, mucous |
| | | | | | | membrane |
| | | | | | | irritation, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting. |

| Butane | | | | | | | | |
|--------------------------------|----------|-------|---------|----------|------------------------|----------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative | | |
| | | | | | Reverse Mutation Test) | | | |



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| Symptoms: | | ataxia, breathing difficulties, drowsiness, unconsciousness |
|-----------|--|---|
| | | , frostbite, disturbed heart rhythm, headaches, |
| | | cramps, intoxication, dizziness, nausea and vomiting. |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|---------|------------------------|--|---|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LD50 | >6,8 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant, Mechanical irritation possible. |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitizising |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitizising |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | (Ames-Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | | | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | No indications of such an effect. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Not irritant (respiratory tract) |
| Symptoms: | | | | | | mucous membrane irritation |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 3500 | mg/kg/d | Rat | | 90d |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10 | mg/m3 | Rat | | 90 d |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10 | mg/m3 | Rat | | 90d |

SECTION 12: Ecological information

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

| Radnaben-Paste 200 mL | | | | | | | | | |
|----------------------------|----------|------|-------|------|----------|-------------|--------|--|--|
| Art.: 4058 | | | | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes | | |
| 12.1. Toxicity to fish: | - | | | | | | n.d.a. | | |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. | | |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. | | |



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| 12.2. Persistence and | | | | n.d.a. |
|-------------------------|--|--|--|--------|
| degradability: | | | | |
| 12.3. Bioaccumulative | | | | n.d.a. |
| potential: | | | | |
| 12.4. Mobility in soil: | | | | n.d.a. |
| 12.5. Results of PBT | | | | n.d.a. |
| and vPvB assessment | | | | |
| 12.6. Other adverse | | | | n.d.a. |
| effects: | | | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|--------|------|----------------------------------|--|---|
| 12.1. Toxicity to fish: | LC50 | 96h | 160 | mg/l | Gambusia affinis | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 49,1 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 49,1 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | freshwater |
| 12.1. Toxicity to algae: | EC50 | 72h | 184,57 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 184,57 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | freshwater |
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances. |
| 12.3. Bioaccumulative potential: | | | | | | | No |
| 12.4. Mobility in soil: | | | | | | | Calcium dihydroxide, which is sparingly soluble, presen a low mobility ir most soils. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | Not relevant for inorganic substances. |
| 12.6. Other adverse effects: | | | | | | | pH-value of > 1 will rapidly decrease as result of dilutior and carbonation., Even though th product can be used to neutralise over- acidified water, when 1g/l is exceeded organisms in th water may be affected |



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| Toxicity to bacteria: | | | | | In high concentrations the product provokes an increase in temperature and of the pH-value. It is used to sanitise sewage |
|-----------------------|------|----------------|----------|--|---|
| | | | | | sludge |
| Other organisms: | EC10 | 2000- 12000 | mg/kg dw | | Soil |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|-----------|------|-------|------|----------------------------------|--|-------|
| 12.1. Toxicity to fish: | NOEC/NOEL | 28d | >1000 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.1. Toxicity to fish: | LL50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 10 | mg/l | Daphnia magna | QSAR | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EL50 | 48h | >100 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 6 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| Other information: | AOX | | 0 | % | | | |

| Propane | | | | | | | | | |
|--|----------|------|-------|------|----------|-------------|---|--|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes | | |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,28 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance | | |

| Butane | | | | | | | |
|--|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 24,11 | mg/l | | QSAR | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 14,22 | mg/l | | QSAR | |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,98 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

Titanium dioxide



(B)

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| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|-----------|------|--------|-------|--------------------|-----------------|----------------|
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus | OECD 203 (Fish, | |
| | | | | | mykiss | Acute Toxicity | |
| | | | | | | Test) | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 | |
| | | | | | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 16 | mg/l | Pseudokirchneriell | U.S. EPA-600/9- | |
| | | | | | a subcapitata | 78-018 | |
| 12.2. Persistence and | | | | | | | Not readily |
| degradability: | | | | | | | biodegradable |
| 12.2. Persistence and | | | | | | | Not |
| degradability: | | | | | | | biodegradable |
| 12.3. Bioaccumulative | | | | | | | No |
| potential: | | | | | | | |
| 12.3. Bioaccumulative | BCF | 14d | 19-352 | | | | Oncorhynchus |
| potential: | | | | | | | mykiss |
| 12.3. Bioaccumulative | BCF | 42d | 9,6 | | | | No |
| potential: | | | | | | | |
| 12.4. Mobility in soil: | | | | | | | Negative |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |
| Toxicity to bacteria: | | | >5000 | mg/l | Escherichia coli | | |
| Toxicity to bacteria: | | | >5000 | mg/l | Pseudomonas | | |
| | | | | | fluorescens | | |
| Toxicity to bacteria: | LC0 | 24h | >10000 | mg/l | Pseudomonas | | |
| | | | | | fluorescens | | |
| Toxicity to annelids: | NOEC/NOEL | | >1000 | mg/kg | Eisenia foetida | | |
| Water solubility: | | | | | | | Insoluble 20°C |

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. (2014/955/EU)

12 01 12 spent waxes and fats

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number: 1950



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Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: UN 1950 AEROSOLS

14.3. Transport hazard class(es):

14.4. Packing group:

Classification code:

5F

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

LQ:

14.3. Transport hazard class(es):
2.1
14.4. Packing group:
-

EmS: F-D, S-U Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1

14.4. Packing group:

14.5. Environmental hazards:

Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

1 L

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

Observe restrictions:

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered

according to storage, handling etc.):

| | according to storage, nandling etc., |). | | |
|----|--------------------------------------|------------------|--------------------------------------|--------------------------------------|
| | Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of | Qualifying quantity (tonnes) of |
| | | | dangerous substances as | dangerous substances as |
| | | | referred to in Article 3(10) for the | referred to in Article 3(10) for the |
| | | | application of - Lower-tier | application of - Upper-tier |
| | | | requirements | requirements |
| ıГ | P3a | 11.1 | 150 (netto) | 500 (netto) |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

| Entry Nr | Dangerous substances | Notes to Annex I | Qualifying quantity (tonnes) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) for the application of - Upper-tier requirements |
|----------|---|------------------|--|--|
| 18 | Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas | 19 | 50 | 200 |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when









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assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): < 17,3 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

8, 15

Revised sections:

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Employee training in handling dangerous goods is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|---|
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Eye Dam. 1, H318 | Classification according to calculation procedure. |
| Aerosol 1, H222 | Classification according to calculation procedure. |
| Aerosol 1, H229 | Classification based on the form or physical state. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Aerosol — Aerosols

 ${\tt STOT\ SE-Specific\ target\ organ\ toxicity-single\ exposure-respiratory\ tract\ irritation}$

Asp. Tox. — Aspiration hazard

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen 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

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

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

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

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

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)



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BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

body weight hw

CAS Chemical Abstracts Service

Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CEC

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

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

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

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

DT50 Dwell Time - 50% reduction of start concentration

Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) DVS

dw dry weight

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

ΕČ **European Community** ECHA European Chemicals Agency EEA European Economic Area FFC **European Economic Community**

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

ΕN

EPA United States Environmental Protection Agency (United States of America)

ERC **Environmental Release Categories**

ES Exposure scenario

et cetera etc. ΕU

European Union

EWC European Waste Catalogue

Fax. Fax number general gen.

Globally Harmonized System of Classification and Labelling of Chemicals GHS

GWP Global warming potential

Hen's Egg Test - Chorionallantoic Membrane HET-CAM

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer International Air Transport Association IATA

Intermediate Bulk Container **IBC**

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

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 LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level

LQ **Limited Quantities**

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked no data available n.d.a.

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

NOAECNo Observed Adverse Effective Concentration



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NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration

NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PĂH polycyclic aromatic hydrocarbon persistent, bioaccumulative and toxic PBT

PC Chemical product category

PΕ Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

parts per million ppm PROC Process category PTFE Polytetrafluorethylene

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

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International

Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature

Structure Activity Relationship SAR

Sector of use SU

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) **UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WÉL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wet weight wwt

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.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax:

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