SAFETY DATA SHEET

Anti-Seize Assembly Paste Presspack

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

1.1 Product identifier

Product name : Anti-Seize Assembly Paste Presspack

UFI : FUQ0-T0CN-800U-S7YV

Product code : 260001

Color : Gray.

Product description : Aerosol product
Corrosion inhibitor.Lubricating agent
When using Anti-Seize on chrome-nickel steel, the formation of chromium(VI) can occur above 400°C.

Product type : Aerosol.

Other means of identification : Not available.

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

Identified uses

Aerosol product
Corrosion inhibitor.Lubricating agent
When using Anti-Seize on chrome-nickel steel, the formation of chromium(VI) can occur above 400°C.

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

WEICON GmbH & Co. KG
Königsberger Str. 255,
48157 Münster, Germany
phone:+49 251 93220,
email: info@weicon.de,
URL: www.weicon.de

e-mail address of person responsible for this SDS : msds@weicon.de

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 3, H229
Eye Dam. 1, H318
Aquatic Acute 1, H400
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

SECTION 2: Hazards identification

Ingredients of unknown toxicity : 1.8 percent of the mixture consists of component(s) of unknown acute oral toxicity
1.8 percent of the mixture consists of component(s) of unknown acute dermal toxicity
1.8 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H229 - Pressurized container: may burst if heated.
H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

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

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 - Do not pierce or burn, even after use.
P273 - Avoid release to the environment.
P280 - Wear eye or face protection.

Response : P391 - Collect spillage.
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal : P501 - Dispose of waste according to applicable legislation.

Hazardous ingredients : calcium dihydroxide

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 2: Hazards identification

Aspiration hazard - Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Distillates (petroleum), hydrotreated light naphthenic	REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6	≥10 - ≤25	Asp. Tox. 1, H304	-	[1]
calcium dihydroxide	REACH #: 01-2119475151-45 EC: 215-137-3 CAS: 1305-62-0	≥5 - <10	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	-	[1] [2]
Aluminium powder (stabilized)	REACH #: 01-2119529243-45 EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≥3 - ≤5	Flam. Sol. 1, H228 Water-react. 2, H261	-	[1] [2]
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	≥3 - ≤5	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg M [Acute] = 10	[1] [2]
1,3,3,3-Tetrafluoropropylene	REACH #: 01-0000019758-54 EC: 471-480-0 CAS: 1645-83-6	≥3 - ≤5	Press. Gas (Liq.), H280	-	[1]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥3 - ≤5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
Zinc powder - zinc dust (stabilized)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥1 - ≤3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 **See Section 16 for the full text of the H statements declared above.**	M [Acute] = 1 M [Chronic] = 1	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard
[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment and cleaning up

SECTION 6: Accidental release measures

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E1	100 tonnes	200 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
calcium dihydroxide	**DFG MAC-values list (Germany, 7/2024)** Develop C. TWA 8 hours: 1 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 2 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. **TRGS 900 OEL (Germany, 3/2025)** TWA 8 hours: 1 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 2 mg/m³. Form: inhalable fraction. **EU OEL (Europe, 1/2022)** TWA 8 hours: 1 mg/m³. Form: Respirable fraction. STEL 15 minutes: 4 mg/m³. Form: Respirable fraction.
Aluminium powder (stabilized)	**DFG MAC-values list (Germany, 7/2024) [Aluminium compounds, soluble (non-irritating)]** Develop C. PEAK 15 minutes: 0.01 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. TWA 8 hours: 0.005 mg/m³. Form: inhalable fraction. **DFG MAC-values list (Germany, 7/2024) [Aluminium compounds, soluble (irritating)]** Develop C. PEAK 15 minutes: 0.0004 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. TWA 8 hours: 0.0002 mg/m³. Form: inhalable fraction. **DFG MAC-values list (Germany, 7/2024) [Aluminium and its poorly soluble compounds]** Carc 4, Develop D. PEAK 15 minutes: 4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. PEAK 15 minutes: 0.4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction. TWA 8 hours: 0.5 mg/m³. Form: inhalable fraction. TWA 8 hours: 0.05 mg/m³. Form: respirable fraction. **TRGS 900 OEL (Germany, 3/2025) [Allgemeiner Staubgrenzwert]** TWA 8 hours: 1.25 mg/m³. Form: alveolar fraction. PEAK 15 minutes: 20 mg/m³. Form: inhalable fraction. TWA 8 hours: 10 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 2.5 mg/m³. Form: alveolar fraction.
copper	**DFG MAC-values list (Germany, 7/2024) [Copper and its inorganic compounds]** Develop C. PEAK 15 minutes: 0.02 mg/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction. TWA 8 hours: 0.01 mg/m³. Form: respirable fraction. **TRGS 900 OEL (Germany, 3/2025) [Kupfer und seine Verbindungen]** PEAK 15 minutes: 0.8 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 0.36 mg/m³. Form: alveolar fraction. TWA 8 hours: 0.2 mg/m³. Form: inhalable fraction. TWA 8 hours: 0.045 mg/m³. Form: alveolar fraction.
zinc oxide	**DFG MAC-values list (Germany, 7/2024) [Zinc and its inorganic compounds]** Develop C. PEAK 15 minutes: 0.4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction. TWA 8 hours: 2 mg/m³. Form: inhalable fraction. TWA 8 hours: 0.1 mg/m³. Form: respirable fraction. PEAK 15 minutes: 4 mg/m³ 4 times per shift [Interval: 1 hour].

SECTION 8: Exposure controls/personal protection

Zinc powder - zinc dust (stabilized)	Form: inhalable fraction. **DFG MAC-values list (Germany, 7/2024) [Zinc and its inorganic compounds]** Develop C. PEAK 15 minutes: 0.4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction. TWA 8 hours: 2 mg/m³. Form: inhalable fraction. TWA 8 hours: 0.1 mg/m³. Form: respirable fraction. PEAK 15 minutes: 4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.

Biological exposure indices

Product/ingredient name	Exposure indices
Aluminium powder (stabilized)	**DFG BEI-values list (Germany, 7/2024)** BEI: 50 µg/g creatinine, aluminium [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts. **TRGS 903 - BEI Values (Germany, 10/2024)** BEI: 50 µg/g creatinine, aluminum [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.
copper	**DFG BEI-values list (Germany, 7/2024) [Copper and its inorganic compounds]** BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the "Occupational medicine and toxicology Justifications for BAT values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
Distillates (petroleum), hydrotreated light naphthenic	**DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
calcium dihydroxide	**DNEL - General population - Long term - Inhalation**

SECTION 8: Exposure controls/personal protection

	1 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 1 mg/m³ Effects: Local **DNEL - General population - Short term - Inhalation** 4 mg/m³ Effects: Local **DNEL - Workers - Short term - Inhalation** 4 mg/m³ Effects: Local
Aluminium powder (stabilized)	**DNEL - Workers - Long term - Inhalation** 3.72 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 3.72 mg/m³ Effects: Systemic **DNEL - General population - Long term - Oral** 3.95 mg/kg bw/day Effects: Systemic
copper	**DNEL - General population - Long term - Dermal** 137 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 137 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 273 mg/kg bw/day Effects: Systemic **DNEL - Workers - Short term - Dermal** 273 mg/kg bw/day Effects: Systemic
1,3,3,3-Tetrafluoropropylene	**DNEL - General population - Long term - Inhalation** 208.1 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 1170.8 mg/m³ Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Gas.

Color : Gray.

Odor : Benzene-like.

Odor threshold : Not available.

Melting point/freezing point : Not applicable.

SECTION 9: Physical and chemical properties

Boiling point or initial boiling point and boiling range : Not available.

Flammability : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Slightly flammable in the presence of the following materials or conditions: heat.

Lower and upper explosion limit : Not available.

Flash point : Closed cup: >93.3°C (>199.9°F) [Product does not sustain combustion.]

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

pH : Not applicable.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not applicable.

Solubility :

Not available.

Solubility in water : Not available.

Partition coefficient n-octanol/water (log Pow) : Not applicable.

Vapor pressure : Not available.

Relative density : Not applicable.

Density : 1.2 g/cm³ [20°C (68°F)]

Relative vapor density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidizing properties : Not available.

Aerosol product

Type of aerosol : Spray

9.2.2 Other safety characteristics

Miscible with water : No.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 10: Stability and reactivity

Reactive or incompatible with the following materials: oxidizing materials and acids.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result
Distillates (petroleum), hydrotreated light naphthenic	**Rat - Oral - LD50** >5000 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) **Rat - Inhalation - LC50 Dusts and mists** 2180 mg/m³ [4 hours] Toxic effects: Lung, Thorax, or Respiration - Structural or functional change in trachea or bronchi
calcium dihydroxide	**Rat - Oral - LD50** 7340 mg/kg

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Anti-Seize Assembly Paste Presspack	13333.3	N/A	N/A	N/A	N/A
calcium dihydroxide	7340	N/A	N/A	N/A	N/A
copper	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
Distillates (petroleum), hydrotreated light naphthenic	**Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 0.5 Ml **Rabbit - Skin - Severe irritant** Amount/concentration applied: 500 mg
zinc oxide	**Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
Zinc powder - zinc dust (stabilized)	**Human - Skin - Mild irritant** Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
calcium dihydroxide	**Rabbit - Eyes - Severe irritant** Amount/concentration applied: 10 mg

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
calcium dihydroxide	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Distillates (petroleum), hydrotreated light naphthenic	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result
calcium dihydroxide	**Acute - LC50 - Fresh water** Fish - Zambezi barbel - *Clarias gariepinus* - Fingerling 33.8844 mg/l [96 hours] Effect: Mortality
Aluminium powder (stabilized)	**Chronic - NOEC - Fresh water** Aquatic plants - Coontail - *Ceratophyllum demersum* Weight: 3.5 g 9 mg/l [3 days] Effect: Enzymes
copper	**Acute - LC50 - Marine water** Crustaceans - Scud Order - *Amphipoda* - Adult

SECTION 12: Ecological information

	Size: 9 mm 0.072 µg/l [48 hours] Effect: Mortality **Chronic - NOEC - Marine water** Algae - Diatom - *Nitzschia closterium* - Exponential growth phase 2.5 µg/l [72 hours] Effect: Population **Chronic - NOEC - Fresh water** Fish - Nile tilapia - *Oreochromis niloticus* - Juvenile (Fledgling, Hatchling, Weanling) Weight: 8.3 g 0.8 µg/l [6 weeks] Effect: Biochemistry **Acute - LC50 - Marine water** Fish - Mudskipper - *Periophthalmus waltoni* - Adult 7.56 µg/l [96 hours] Effect: Mortality **Chronic - NOEC - Fresh water** Daphnia - Water flea - *Daphnia magna* 2 µg/l [21 days] Effect: Mortality **Acute - IC50 - Fresh water** Algae - Green algae - *Raphidocelis subcapitata* - Exponential growth phase 13 µg/l [72 hours] Effect: Population
zinc oxide	**Acute - LC50 - Fresh water** Daphnia - Water flea - *Daphnia magna* - Neonate Age: <24 hours 98 µg/l [48 hours] Effect: Mortality **Acute - LC50 - Fresh water** US EPA Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* Weight: 0.78 g 1.1 ppm [96 hours] Effect: Mortality **Acute - IC50 - Fresh water** Algae - Green algae - *Raphidocelis subcapitata* - Exponential growth phase 46 µg/l [72 hours] Effect: Population
Zinc powder - zinc dust (stabilized)	**Chronic - NOEC - Fresh water** Fish - common carp - *Cyprinus carpio* Age: 13 months; Size: 10.5 cm; Weight: 27.8 g 2.6 µg/l [4 weeks] Effect: Accumulation **Acute - LC50 - Marine water** Fish - Mudskipper - *Periophthalmus waltoni* - Adult 12.21 µg/l [96 hours] Effect: Mortality

SECTION 12: Ecological information

Acute - EC50
Algae - Green algae - *Raphidocelis subcapitata*
0.005 mg/l [72 hours]
Effect: Population

Chronic - EC10
OECD
Daphnia - Water flea - *Daphnia magna* - Neonate
Age: <24 hours
6.3 µg/l [21 days]
Effect: Reproduction

Acute - EC50 - Fresh water
US EPA
Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate
Age: <24 hours
34 µg/l [48 hours]
Effect: Intoxication

Chronic - EC10 - Fresh water
OECD
Algae - Green algae - *Raphidocelis subcapitata* - Exponential growth phase
27.3 µg/l [72 hours]
Effect: Population

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
zinc oxide	-	28960	High

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logKoc	Koc
1,3,3,3-Tetrafluoropropylene	1.7	52.3516

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Distillates (petroleum), hydrotreated light naphthenic	No	No	No	No	No	No	No
calcium dihydroxide	No	No	No	No	No	No	No
Aluminium powder (stabilized)	No	No	No	No	No	No	No
copper	No	No	No	No	No	No	No
1,3,3,3-Tetrafluoropropylene	No	No	No	No	No	No	No
zinc oxide	No	No	No	No	No	No	No
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Distillates (petroleum), hydrotreated light naphthenic	No	N/A	N/A	No	N/A	N/A	N/A
calcium dihydroxide	No	No	No	No	No	No	No
Aluminium powder (stabilized)	No	No	No	No	No	No	No
copper	No	No	No	No	No	No	No
1,3,3,3-Tetrafluoropropylene	No	N/A	N/A	No	N/A	N/A	N/A
zinc oxide	No	No	No	No	No	No	No
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Distillates (petroleum), hydrotreated light naphthenic	No	No	No	No	No	No	No
calcium dihydroxide	No	No	No	No	No	No	No
Aluminium powder (stabilized)	No	No	No	No	No	No	No
copper	No	No	No	No	No	No	No
1,3,3,3-Tetrafluoropropylene	No	No	No	No	No	No	No
zinc oxide	No	No	No	No	No	No	No
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

SECTION 13: Disposal considerations

Waste code	Waste designation
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Can	15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS (1,3,3,3-Tetrafluoropropylene)	AEROSOLS (1,3,3,3-Tetrafluoropropylene)	AEROSOLS (1,3,3,3-Tetrafluoropropylene)	Aerosols, non-flammable (1,3,3,3-Tetrafluoropropylene)
14.3 Transport hazard class(es)	2 	2 	2.2 	2.2 
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Limited quantity 1 L
Special provisions 190, 327, 625, 344
Tunnel code (E)
ADR Classification Code: 5A

ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Special provisions 190, 327, 625, 344

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-D, S-U
Special provisions 63, 190, 277, 327, 344, 381, 959

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203.
Special provisions A98, A145, A167, A802

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

None of the components are listed above the relevant limit.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : Not applicable.

Total percentage of synthetic polymer microparticles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Industrial emissions (integrated pollution prevention and control) - Water : Listed

Explosive precursors : This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Aerosol dispensers :

3

3.8% by mass of the contents are flammable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

SECTION 15: Regulatory information

Category
E1

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
calcium dihydroxide	DFG MAC-values list	-	Develop C	-
aluminium powder (stabilised)	DFG MAC-values list	Aluminium compounds, soluble (non-irritating)	Develop C	-
	DFG MAC-values list	Aluminium compounds, soluble (irritating)	Develop C	
	DFG MAC-values list	Aluminium and its poorly soluble compounds	Carc 4, Develop D	
copper	DFG MAC-values list	Copper and its inorganic compounds	Develop C	-
zinc oxide	DFG MAC-values list	Zinc and its inorganic compounds	Develop C	-
zinc powder zinc dust (stabilised)	DFG MAC-values list	Zinc and its inorganic compounds	Develop C	-

Storage class (TRGS 510) : 2B

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
E1	1.3.1

Hazard class for water : 3

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	11.2
5.2.2 [III]	Dusty inorganic substances	5.5
5.2.5	Organic substances	21.8
5.2.10	Soil polluting substances	3

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

SECTION 15: Regulatory information

Eurasian Economic Union : **Russian Federation inventory**: All components are listed or exempted.

Japan : **Japan inventory (CSCL)**: Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : All components are listed or exempted.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile
N/A = Not available
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SGG = Segregation Group
T = Toxic
vB = Very Bioaccumulative
vM = Very Mobile
vP = Very Persistent
vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 3, H229	On basis of test data
Eye Dam. 1, H318	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

H228	Flammable solid.
H229	Pressurized container: may burst if heated.
H261	In contact with water releases flammable gas.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 3	AEROSOLS - Category 3
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1
Press. Gas (Liq.)	GASES UNDER PRESSURE - Liquefied gas
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Water-react. 2	SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2

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