



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Aug/12/2015
Version: 1
Language: en-US
Date of print: Oct/19/2015

Anti-Seize AS Assembly Paste

Material number 260000

Page: 1 of 9

1. Product and company identification

Product identifier

Trade name: Anti-Seize AS Assembly Paste

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

General use: Corrosion protection agent, lubricant

Details of the supplier of the safety data sheet

Company name: Weicon GmbH & Co. KG

Street/POB-No.: Königsberger Str. 255

Postal Code, city: 48157 Münster

Germany

WWW: www.weicon.de

E-mail: info@weicon.de

Telephone: +49 (0)251- 93 22-0

Telefax: +49 (0)251- 93 22-244

Dept. responsible for information:

Product-Safety-Department

Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

GIZ, Bonn (Germany)

Telephone: +49(0)228 / 19 240

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: solid

Form: pasty

Color: gray

Odor: characteristic

Classification: Eye Damage - Category 1; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word: **Danger**

Hazard statements: Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

Precautionary statements: Keep out of reach of children.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

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/doctor.

Collect spillage.

Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.



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Hazards not otherwise classified

Contact with water liberates alkali.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Preparation of thickener in a mixture of synthetic/mineral oils with additives.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 1305-62-0	Calcium hydroxide	< 10 %	Skin Irritation - Category 2. Eye Damage - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 1314-13-2	Zinc oxide	2.5 - 5 %	Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 7440-50-8	Copper	2.5 - 5 %	Aquatic toxicity - acute - Category 1.
CAS 7429-90-5	Aluminium powder, phlegmatized	2.5 - 5 %	Flammable Solid - Category 1. Water-reactive - Category 2.

4. First aid measures

General information: Take off contaminated clothing and wash it before reuse.
In case of inhalation: Provide fresh air. Seek medical aid in case of troubles.
Following skin contact: Thoroughly wash skin with soap and water. Seek medical attention if irritation persists.
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if any. Subsequently consult an ophthalmologist.
After swallowing: Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical aid in case of troubles.

Most important symptoms/effects, acute and delayed

Causes serious eye damage.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

Base oil: approx. 338 °F (ISO 2592)

Auto-ignition temperature: no data available

Suitable extinguishing media:

Water fog, dry chemical powder, alcohol resistant foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

Specific hazards arising from the chemical

Hazardous vapors may form during fires.

In case of fire may be liberated: Metal oxide smoke, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.



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Additional information: Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. You have to dispose of contaminated extinguishing water according to the regulations of the authorities.
Do not inhale explosion and combustion gases.

6. Accidental release measures

Personal precautions: Avoid contact with skin, eyes, and clothing.
Do not breathe vapor or spray. Provide adequate ventilation.
Wear protective equipment. Keep unprotected people away. Keep away from sources of ignition. - No smoking.

Environmental precautions: Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Additional information: Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Do not breathe vapor. Wear protective equipment.
Avoid contact with skin, eyes, and clothing.
Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Use appropriate skin protection agent when you start work.

Precautions against fire and explosion: Keep away from sources of ignition. - No smoking.

Storage

Requirements for storerooms and containers: Store in a cool dry place. Protect from exposure to heat, direct sunlight, and cold. Keep container tightly closed.
Recommended storage temperature: Room temperature

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.
Do not store together with: Oxidizing agents and acids.



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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1305-62-0	Calcium hydroxide	USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	5 mg/m ³ 5 mg/m ³ 15 mg/m ³ inhalable fraction 5 mg/m ³ (respirable fraction)
1314-13-2	Zinc oxide	NIOSH: Ceiling USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	15 mg/m ³ Dusts 10 mg/m ³ (respirable fraction) 2 mg/m ³ (respirable fraction) 10 mg/m ³ Smoke 5 mg/m ³ Dusts 5 mg/m ³ Smoke 15 mg/m ³ inhalable fraction 5 mg/m ³ (respirable fraction)
7440-50-8	Copper	USA: ACGIH: TWA USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	0.2 mg/m ³ Smoke 1 mg/m ³ Dusts and mist calculated as Cu 1 mg/m ³ 0.1 mg/m ³ (Smoke; calculated as Cu) 1 mg/m ³ Dusts and mist calculated as Cu
7429-90-5	Aluminium powder, phlegmatized	NIOSH: Ceiling USA: ACGIH: TWA USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	5 mg/m ³ (inhalable fraction) 1 mg/m ³ 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (inhalable fraction) 15 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)

Engineering controls

Provide adequate ventilation, and local exhaust as needed.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection	Recommendation: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Skin protection	Wear suitable protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Nitrile rubber Layer thickness: > 0.4 mm Breakthrough time: > 480 min Unsuitable gloves materials: Leather, thick fabric. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Respiratory protection:	When vapors form, use respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.



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General hygiene considerations:

Avoid contact with skin and eyes.
Take off contaminated clothing and wash it before reuse.
When using do not eat or drink.
Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Form: pasty Color: gray
Odor:	characteristic
Odor threshold:	no data available
pH value:	not applicable
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point/flash point range:	Base oil: approx. 338 °F (ISO 2592)
Evaporation rate:	no data available
Flammability:	no data available
Explosion limits:	no data available
Vapor pressure:	no data available
Vapor density:	no data available
Density:	at 68 °F: 1.2 g/cm ³ (DIN 51757)
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	No decomposition when used properly.
Viscosity, kinematic:	not applicable
Explosive properties:	not determined
Ignition temperature:	not determined

10. Stability and reactivity

Reactivity:	no data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with strong acids and strong oxidizing agents.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight. Protect from moisture contamination.
Incompatible materials:	Acids, oxidizing agents
Hazardous decomposition products:	Hazardous vapors may form during fires. In case of fire may be liberated: Metal oxide smoke, carbon monoxide and carbon dioxide.
Thermal decomposition:	No decomposition when used properly.



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11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Eye damage/irritation: Eye Damage - Category 1 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Information about Copper:

Algae toxicity:

EC50 *Pseudokirchneriella subcapitata* (green algae): 59.3 µg/L/72h

Daphnia toxicity:

EC50 *Ceriodaphnia spec.*: 9.8 µg/L/48h

Fish toxicity:

LC50 *Oncorhynchus mykiss*: 18 µg/L/96h

Information about Zinc oxide

Algae toxicity:

EC50 *Selenastrum capricornutum*: 0.14 - 0.17 mg/L/72h.

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): > 1000 mg/L/48h.

Fish toxicity:

LC50 *Oncorhynchus mykiss*: 1.1 mg/L/96h.

Mobility in soil

no data available

Persistence and degradability

Further details: no data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.
Do not allow uncontrolled discharge of product into the environment.



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13. Disposal considerations

Product

Recommendation: Do not dispose of with household waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers: UN3077
Proper shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (Copper, Zinc oxide)
DOT hazard class or division: 9
PG: III
Label codes: 9
Special provisions: 8, 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
Packaging - Exceptions: 155
Packaging - Non-bulk: 213
Packaging - Bulk: 240
Quantity limitations - Passenger aircraft / rail: No limit
Quantity limitations - Cargo only: No limit
Vessel stowage - Location: A



Sea transport (IMDG)

UN number: UN 3077
Proper shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper, Zinc oxide)
IMDG: Class 9, Subrisk -
Packing Group: III
EmS: F-A, S-F
Special provisions: 274, 335, 966, 967, 969
Limited quantities: 5 kg
EQ: E1
Contaminated packaging - Instructions: P002, LP02
Contaminated packaging - Provisions: PP12
IBC - Instructions: IBC08
IBC - Provisions: B3
Tank instructions - IMO: -
Tank instructions - UN: T1, BK2, BK2, BK3
Tank instructions - Provisions: TP33
Stowage and handling: Category A. SW23
Properties and observations: -
Marine pollutant: Yes
Segregation group: none



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Air transport (IATA)

UN/ID number: UN 3077
Proper shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper, Zinc oxide)
ICAO/IATA: Class 9
PG: III
Hazard: Miscellaneous
EQ: E1
Passenger Ltd.Qty.: Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Cargo: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Special Provisioning: A97 A158 A179 A197
ERG: 9L

Further information

Attention: Miscellaneous dangerous goods

15. Regulatory information

U.S. Federal Regulations

Calcium hydroxide: TSCA Inventory: listed
TSCA HPVC: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0092

Zinc oxide: TSCA Inventory: listed
TSCA HPVC: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0675*

Copper: TSCA Inventory: listed
TSCA HPVC: not listed
Clean Water Act:
Priority Pollutant: yes
Other Environmental Laws:
CERCLA: RQ 5000* lbs.
Marine Pollutant: listed as severe pollutant.
RCRA Groundwater Monitoring: Methods 6010, 7210 / PQL 60, 200
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
NIOSH Recommendations:
Occupational Health Guideline: 0150*

Aluminium powder, phlegmatized: TSCA Inventory: listed
TSCA HPVC: not listed
Other Environmental Laws:
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
NIOSH Recommendations:
Occupational Health Guideline: 0022

National regulations - Great Britain

Hazchem-Code: 2Z



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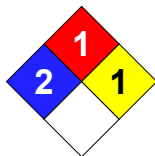
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16. Other information

Text for labeling: Contains < 10 % Calcium hydroxide, 2.5 - 5 % Zinc oxide, 2.5 - 5 % Copper, 2.5 - 5 % Aluminium powder, phlegmatized. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 1 (Slight)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 1 (Slight)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	1
	X

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Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.