



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 27/Mar/2018

Version: 6

Language: en-CA,US

Date of print: 24/Apr/2018

Anti-Seize AS Assembly Paste

Material number 260000

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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
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – Canada (24h): Tel: +1 866 928 0789 (Toll free)

Transport:

TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: +1 866 928 0789 (Toll free)

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: solid
Form: pasty
Color: gray
Odor: characteristic
Classification: Eye Damage 1; Sensitization - skin 1; Aquatic toxicity - acute 1;
Aquatic toxicity - chronic 2;

Hazard symbols:



Signal word:

Danger

Hazard statements:

May cause an allergic skin reaction.
Causes serious eye damage.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
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.
Specific treatment (see 'First aid' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
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.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

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

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 1305-62-0	Calcium hydroxide	< 10 %	Skin Irritation 2. Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 7440-50-8	Copper	2.5 - 5 %	Acute Toxicity 4 (oral). Aquatic toxicity - acute 1. Aquatic toxicity - chronic 2.
CAS 7429-90-5	Aluminium powder (pyrophoric)	2.5 - 5 %	Flammable Solid 1.
CAS 1314-13-2	Zinc oxide	< 3.5 %	Aquatic toxicity - acute 1. Aquatic toxicity - chronic 1.
CAS -	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300	< 1 %	Sensitization - skin 1.

4. First aid measures

General information: First aider: Pay attention to self-protection!
If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.
Subsequently seek the immediate attention of an ophthalmologist.



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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 and effects, both acute and delayed

Causes serious eye damage. May cause an allergic skin reaction.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

Base oil: approx. 170 °C (ISO 2592)

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, extinguishing 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: carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

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

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.

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. Take off contaminated clothing and wash it before reuse.

Do not breathe vapor or spray. Provide adequate ventilation.

Wear appropriate 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 or spray. Wear appropriate 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.



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Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position.
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	Canada, Alberta: OEL 8 hour	5 mg/m ³
		Canada, BC: OEL TWA	5 mg/m ³
		Canada, Québec: VEMP	5 mg/m ³
		USA: ACGIH: TWA	5 mg/m ³
		USA: NIOSH: TWA	5 mg/m ³
		USA: OSHA: TWA	15 mg/m ³ inhalable fraction
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)
7440-50-8	Copper	Canada, Alberta: OEL 8 hour	0.2 mg/m ³ Smoke
		Canada, Alberta: OEL 8 hour	1 mg/m ³ Dusts and mist
		Canada, BC: OEL TWA	0.2 mg/m ³ Smoke
		Canada, BC: OEL TWA	1 mg/m ³
		Canada, Québec: VEMP	0.2 mg/m ³
			(Smoke, calculated as Cu)
		Canada, Québec: VEMP	1 mg/m ³
			(Dusts and mist, calculated as Cu)
		USA: ACGIH: TWA	0.2 mg/m ³ Smoke
		USA: ACGIH: TWA	1 mg/m ³
			Dusts and mist calculated as Cu
	1 mg/m ³		
	USA: NIOSH: TWA		
	USA: OSHA: TWA		
	0.1 mg/m ³		
	(Smoke; calculated as Cu)		
	USA: OSHA: TWA		
	1 mg/m ³		
	Dusts and mist calculated as Cu		
7429-90-5	Aluminium powder (pyrophoric)	Canada, Alberta: OEL 8 hour	10 mg/m ³ (Metal Dust)
		Canada, Alberta: OEL 8 hour	5 mg/m ³
			(Pyro powders, calculated as Al)
		Canada, BC: OEL TWA	1 mg/m ³
		Canada, Québec: VEMP	10 mg/m ³ Metals
		NIOSH: Ceiling	5 mg/m ³ (inhalable fraction)
		USA: ACGIH: TWA	1 mg/m ³
		USA: NIOSH: TWA	10 mg/m ³ (inhalable fraction)
		USA: NIOSH: TWA	5 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)
USA: OSHA: TWA	5 mg/m ³ (respirable fraction)		
1314-13-2	Zinc oxide	Canada, Alberta: OEL 15 min	10 mg/m ³
		Canada, Alberta: OEL 8 hour	2 mg/m ³
		Canada, BC: OEL STEL	10 mg/m ³
		Canada, BC: OEL TWA	2 mg/m ³
		Canada, Québec: VECD	10 mg/m ³ Smoke
		Canada, Québec: VEMP	10 mg/m ³ Dusts, inhalable fraction
		Canada, Québec: VEMP	5 mg/m ³ Smoke
		NIOSH: Ceiling	15 mg/m ³ Dusts
		USA: ACGIH: STEL	10 mg/m ³ (respirable fraction)
		USA: ACGIH: TWA	2 mg/m ³ (respirable fraction)
		USA: NIOSH: STEL	10 mg/m ³ Smoke
		USA: NIOSH: TWA	5 mg/m ³ Dusts
		USA: NIOSH: TWA	5 mg/m ³ Smoke
		USA: OSHA: TWA	15 mg/m ³ inhalable fraction
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)



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Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

- Eye/face protection: 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: > 60 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
- 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.
Have eye wash bottle or eye rinse ready at work place.

9. Physical and chemical properties

Information on basic physical and chemical properties

- Appearance: Physical state at 20 °C 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. 170 °C (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 20 °C: approx. 1.2 g/cm³ (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:
Explosive properties: not determined
- Ignition temperature: estimated > 200 °C



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10. Stability and reactivity

Reactivity: Refer to subsection "Possibility of hazardous reactions".

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:
Toxic gases/vapours.
Carbon monoxide and carbon dioxide.

Thermal decomposition: No decomposition when used properly.

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): Based on available data, the classification criteria are not met.
ATEmix calculated: > 5000 mg/kg.
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.
Serious eye damage/irritation: Eye Damage 1 = Causes serious eye damage.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met. No experimental indications of genotoxicity in-vitro exist.
Carcinogenicity: Based on available data, the classification criteria are not met. Longterm experiments do not indicate carcinogenic effects.
Reproductive toxicity: Based on available data, the classification criteria are not met. During animal experiments no indications of reproductive toxicity were observed.
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.

Other information: Information about Copper:
LD50 Rat: 481 mg/kg

Symptoms

After contact with skin:
Frequently or prolonged contact with skin may cause dermal irritation.
After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

General remarks

Further hazardous properties cannot be excluded.



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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

Volatile organic compounds (VOC):

0 % by weight = 0 g/L

General information:

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

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.



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14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN3077
Proper shipping name: UN 3077, UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
Hazard class or Division: 9
Packing Group: III
Labels: 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



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN3077
Shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper, Zinc oxide)
TDG class: 9
Packing group: III
Special provisions: 16, 99
Explosive limit and limited quantity index: 5 kg

Sea transport (IMDG)

UN number: UN 3077
Proper shipping name: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper, Zinc oxide)
Class or division, Subsidiary risk: Class 9, Subrisk -
Packing Group: III
EmS: F-A, S-F
Special provisions: 274, 335, 966, 967, 969
Limited quantities: 5 kg
Excepted quantities: 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)
Class or division, Subsidiary risk: Class 9
Packing Group: III
Hazard label: Miscellaneous
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Cargo Aircraft only: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Special provisions: A97 A158 A179 A197
Emergency Response Guide-Code (ERG): 9L

Further information

Attention: Miscellaneous dangerous goods

15. Regulatory information

National regulations - Canada

No data available

National regulations - U.S. Federal Regulations

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

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 (pyrophoric): 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

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



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16. Other information

Text for labeling: Contains < 10 % Calcium hydroxide, 2.5 - 5 % Copper, 2.5 - 5 % Aluminium powder (pyrophoric), < 3.5 % Zinc oxide, < 1 % Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300. 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

Reason of change: Changes in section 2: Labeling

General revision

Date of first version: 12/Aug/2015

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.