



Safety Data Sheet

Dynatex® 49582 Copper Anti-Seize & Lubricating Compound

Section 1. Identification

Product Identifier Dynatex® 49582 Copper Anti-Seize & Lubricating Compound

Synonyms 49582CP10

Manufacturer Stock
Numbers 49582CP10

Recommended use Refer to Technical Information

Uses advised against Refer to Technical Information

Manufacturer Contact

Address Dynatex a division of Soudal Accumetric
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Elizabethtown, KY, 42701
USA

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Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(270) 769-6418

Section 2. Hazards Identification

Classification HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1
HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD -
Category 2

Signal Word Warning

Pictogram



Hazard Statements	Toxic to aquatic life with long lasting effects Very toxic to aquatic life
Precautionary Statements	
Response	Collect spillage
Prevention	Avoid release to the environment
Storage	N/A
Disposal	Dispose of contents and container in accordance with all local, regional, national, and international regulations.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	
Additional Information	None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
7440-50-8	Copper powder	1% - 5%

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

Section 4. First-Aid Measures

Description of necessary first aid measures	<p>Eye contact</p> <p>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 20 minutes. Get medical attention if irritation occurs.</p> <p>Inhalation</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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.</p> <p>Skin contact</p> <p>Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p> <p>Ingestion</p> <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been</p>
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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. Get medical attention if adverse health effects persist or are severe. 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.

Most important symptoms/effects (acute and delayed)

Potential acute health effects
No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if neces

Overexposure signs/symptoms
No known significant effects or critical hazards.

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

Specific treatments
No specific treatment.

Protection of first-aiders
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Foam, Dry Chemical or Carbon Dioxide

Unsuitable Extinguishing Media

None known

Specific hazards arising from the chemical

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 thermal decomposition products

Decomposition products may include the following materials:
Carbon dioxide
Carbon monoxide
Metal oxide/oxides

Special protective actions for firefighters

No special measures are required.

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.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and

For non-emergency personnel:
No action shall be taken involving any personal risk or without suitable training.

emergency procedures

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing 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".

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.

Methods and materials for containment and cleaning up

Small spill:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in

unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name

ACGIH TLV

OSHA PEL

STEL

Copper powder

1 mg/m³

1 mg/m³

N/A

Personal Protective Equipment

Goggles, Gloves

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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: safety glasses with side-shields.

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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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.

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:

Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

Physical State	Semi-solid
Color	Copper
Odor	Petroleum
Odor Threshold	Not available
Solubility	Insoluble in water
Partition coefficient Water/n-octanol	Not available
VOC%	N/A
Viscosity	Not available
Specific Gravity	1.27
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	215.56C 420F
FP Method	Cleveland
pH	Not available
Melting Point	Not available
Boiling Point	Not available
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not available
Flammability	Flammable in the presence of the followi
Decomposition Temperature	Not available
Auto-ignition Temperature	Not available
Vapor Pressure	Not available
Vapor Density	Not available

Note

The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Reactivity

No specific test data related to reactivity available for this product or its

	ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Do not heat above flash point.
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials, acids
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects	<p>Acute toxicity:</p> <p>There is no data available.</p> <p>Irritation/corrosion:</p> <p>There is no data available.</p> <p>Sensitization:</p> <p>There is no data available.</p> <p>Mutagenicity:</p> <p>There is no data available.</p> <p>Carcinogenicity:</p> <p>There is no data available.</p> <p>Reproductive toxicity:</p> <p>There is no data available.</p> <p>Teratogenicity:</p> <p>There is no data available.</p> <p>Specific target organ toxicity (single exposure):</p> <p>There is no data available.</p> <p>Specific target organ toxicity (repeated exposure):</p> <p>There is no data available.</p> <p>Aspiration hazard:</p> <p>There is no data available.</p>
Information on likely routes of exposure	Ingestion
Potential acute health effects	<p>Eye contact:</p> <p>No known significant effects or critical hazards.</p> <p>Inhalation:</p> <p>No known significant effects or critical hazards.</p> <p>Skin contact:</p>

	No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics	Ingestion: No known significant effects or critical hazards.
	Eye contact: No known significant effects or critical hazards.
	Inhalation: No known significant effects or critical hazards.
	Skin contact: No known significant effects or critical hazards.
Delayed and immediate effects and also chronic effects from short and long term	Ingestion: No known significant effects or critical hazards.
	Short term exposure Potential immediate effects: No known significant effects or critical hazards. Potential delayed effects: No known significant effects or critical hazards.
	Long term exposure Potential immediate effects: No known significant effects or critical hazards. Potential delayed effects: No known significant effects or critical hazards.
	General: No known significant effects or critical hazards.
Potential chronic health effects	Carcinogenicity: No known significant effects or critical hazards.
	Mutagenicity: No known significant effects or critical hazards.
	Teratogenicity: No known significant effects or critical hazards.
	Developmental effects: No known significant effects or critical hazards.
	Fertility effects: No known significant effects or critical hazards.
Numerical measures of toxicity	Acute toxicity estimates Route: Oral ATE value: 108965.6 mg/kg

Section 12. Ecological Information

Ingredient Toxicity - Copper	Acute EC50 1100 µg/L Fresh water Aquatic plants - Lemna minor 4 days
	Acute EC50 2.1 µg/L Fresh water

Daphnia - *Daphnia longispina* - Juvenile
(Fledgling, Hatchling, Weanling)
48 hours

Acute IC50 13 µg/L Fresh water
Algae - *Pseudokirchneriella subcapitata* -
Exponential growth phase
72 hours

Acute IC50 5.4 mg/L Marine water
Aquatic plants - *Plantae* - Exponential growth phase
72 hours

Acute LC50 0.072 µg/L Marine water
Crustaceans - *Amphipoda* - Adult
48 hours

Acute LC50 7.56 µg/L Marine water
Fish - *Periophthalmus waltoni* - Adult
96 hours

Chronic NOEC 2.5 µg/L Marine water
Algae - *Nitzschia closterium* - Exponential growth phase
72 hours

Chronic NOEC 7 mg/L Fresh water
Aquatic plants - *Ceratophyllum demersum*
3 days

Chronic NOEC 0.02 mg/L Fresh water
Crustaceans - *Cambarus bartonii* - Mature
21 days

Chronic NOEC 2 µg/L Fresh water
Daphnia - *Daphnia magna*
21 days

Chronic NOEC 0.8 µg/L Fresh water
Fish - *Oreochromis niloticus* - Juvenile
(Fledgling, Hatchling, Weanling)
6 weeks

Persistence and
degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal

Disposal methods

The generation of waste should be avoided or minimized wherever possible.
Disposal of this product, solutions and any by-products should comply with the

requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

UN Number	3077
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper)
DOT Classification	Transport Hazard Class: 9 Environmental Hazards: Yes Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.
Packing Group	III
IMDG	UN Number: UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper) Transport hazard class(es): 9 Packing group: III Environmental hazards: Yes. Additional information: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
IATA	UN Number: UN3077 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper) Transport hazard class(es): 9 Packing group: III

Environmental hazards:
Yes.

Additional information:

The environmentally hazardous substance mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

Section 15. Regulatory Information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption:
Not determined

United States inventory (TSCA 8b):
All components are listed or exempted.

Clean Water Act (CWA) 307:
Copper

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):
Listed

Clean Air Act Section 602 Class I Substances:
Not listed

Clean Air Act Section 602 Class II Substances:
Not listed

DEA List I Chemicals (Precursor Chemicals):
Not listed

DEA List II Chemicals (Essential Chemicals):
Not listed

SARA

SARA 302/304
Composition/information on ingredients
No products were found.
SARA 304 RQ : Not applicable.

SARA 311/312
Classification : Not applicable.
Composition/information on ingredients
No products were found.

SARA 313

Form R - Reporting requirements

Copper 7440-50-8 1 - 5%

Supplier notification

Copper 7440-50-8 1 - 5%

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts:

The following components are listed: Limestone; Talc; Copper; Graphite, natural

New York:

The following components are listed: Copper

New Jersey:

The following components are listed: Distillates (petroleum), hydrotreated heavy paraffinic; Limestone; Talc; Copper; Graphite, natural

Pennsylvania:

The following components are listed: Limestone; Talc; Copper; Graphite, natural

International regulations

Australia inventory (AICS):

All components listed or exempted.

China inventory (IECSC):

All components are listed or exempted.

Korea inventory:

All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC):

All components are listed or exempted.

Philippines inventory (PICCS):

All components are listed or exempted.

Chemical Weapons Convention List

Schedule I

Not listed

Schedule II

Not listed

Schedule III

Not listed

California Prop 65

WARNING: This product can expose you to chemicals including Copper, which is known to the state of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Section 16. Other Information

HMIS and NFPA Rating

Hazardous Material Information System (U.S.A.)

Health : 1 *

Flammability : 1

Physical hazards : 1

Caution: HMIS® and NFPA ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 1

Flammability : 1

Instability : 1

Disclaimer

The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.