

1. Identification

Product identifier	MP500-EXT™		
Other means of identification			
SDS number	66-UTL	EPA Registration Number	75341-18
Recommended use	Wood preservative for utility poles		
Recommended restrictions	None known.		

Manufacturer/Importer/Supplier/Distributor information

Company name	Osmose Utilities Services, Inc.		
Address	635 Hwy 74 S Peachtree City, GA 30269 US		
Telephone	Phone Number:	770-632-6700	
	Osmose Products Group:	716-319-3420	
Website	www.osmoseutilities.com		
E-mail	products@osmose.com		
Contact person	Osmose Products Group		
Emergency phone number	CHEMTREC:	1-800-424-9300	

2. Hazard(s) identification

Physical hazards	Not Classified.		
Health hazards	Reproductive toxicity	Category 1B	
OSHA defined hazards	Not classified.		

Label elements



Signal word	Danger		
Hazard statement	May damage fertility or the unborn child.		
Precautionary statement Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves and clothing. Wear eye protection.		
Response	If exposed or concerned: Get medical advice/attention.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Sodium tetraborate decahydrate	1303-96-4	40 - 50
Copper carbonate	12069-69-1	1 – 5
Red iron oxide	1309-37-1	< 1
Yellow iron oxide	51274-00-1	< 1
Carbon black	1333-86-4	< 0.1

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation. May damage fertility or the unborn child.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.
Unsuitable extinguishing media	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy/while nursing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Keep container tightly sealed when not in use. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m ³	
Red iron oxide (CAS 1309-37-1)	PEL	10 mg/m ³	Fume.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m ³	Inhalable fraction.
Red iron oxide (CAS 1309-37-1)	TWA	5 mg/m ³	Respirable fraction.
Sodium tetraborate decahydrate (CAS 1303-96-4)	STEL	6 mg/m ³	Inhalable fraction.
	TWA	2 mg/m ³	Inhalable fraction.

U.S. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m ³	
Copper carbonate (CAS 12069-69-1)	TWA	1 mg/m ³	Dust and mist.
Red iron oxide (CAS 1309-37-1)	TWA	5 mg/m ³	Dust and fume.
Sodium tetraborate decahydrate (CAS 1303-96-4)	TWA	5 mg/m ³	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, vitro) if hand contact with the material is anticipated.

Other

Mixers, loaders, applicators, and other handlers must wear long-sleeve shirt or protective sleeves, long pants, shoes plus socks. Educate and train employees on the safe use and handling of this product. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

Respiratory protection	None required where adequate ventilation conditions exist. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance

Physical state	Solid.
Form	Paste.
Color	Brown.
Odor	Mild odor.
Odor threshold	Not available.
pH	9.02
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not applicable.
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.28
Solubility(ies)	
Solubility (water)	10 - 99 % (Soluble)
Partition coefficient (n-octanol/water)	
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	7100 - 1110000 cP @ 25°C
Other Information	
Bulk Density	10.7 lb/gal
VOC (Weight %)	VOC not detected (Direct Assay)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong reducing agents. Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition may produce CO, CO ₂ , oxides of nitrogen and other potentially toxic gases.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged exposure may cause skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
MP500-EXT (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.1 mg/l
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Red iron oxide (CAS 1309-37-1)	3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not classified.

Chronic effects None known.

12. Ecological information

Ecotoxicity	Toxic to fish and aquatic invertebrates.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	Not available.

13. Disposal considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local, regional, national and international regulations.
Pesticide disposal	Follow container label instructions for disposal of wastes generated during use in compliance with the EPA product label. Dispose of in accordance with local regulations.
Container disposal	Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities by burning. If burned, stay out of smoke. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	
UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper carbonate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed.	
CERCLA Hazardous Substance List (40 CFR 302.4)	Copper carbonate (CAS 12069-69-1)	LISTED
Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Copper carbonate	12069-69-1	1 - 5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

Signal Word

CAUTION

Precautionary Statement

Causes Moderate eye irritation. Avoid contact with skin, eyes, or clothing.

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

- Carbon black (CAS 1333-86-4)
- Copper carbonate (CAS 12069-69-1)
- Red iron oxide (CAS 1309-37-1)
- Sodium tetraborate decahydrate (CAS 1303-96-4)

US. Massachusetts RTK - Substance List

- Carbon black (CAS 1333-86-4)
- Red iron oxide (CAS 1309-37-1)
- Sodium tetraborate decahydrate (CAS 1303-96-4)

US. Pennsylvania Worker and Community Right-to-Know Law

- Carbon black (CAS 1333-86-4)
- Copper carbonate (CAS 12069-69-1)
- Red iron oxide (CAS 1309-37-1)
- Sodium tetraborate decahydrate (CAS 1303-96-4)

US. Rhode Island RTK

- Copper carbonate (CAS 12069-69-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

- Carbon black (CAS 1333-86-4)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-May-2015
Revision date 05-May-2015
Revision No. 01

HMIS Ratings

Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 0
Physical hazard: 0

Disclaimer

Osmose Utilities Services, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The information herein is given in good faith but no warranty, expressed or implied, is made, and Osmose Utilities Services, Inc. expressly disclaims liability from reliance on such information.