

# Osmose MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET: **MP400-EXT®**

## SECTION I

<b>MSDS NUMBER:</b>	58-UTL
<b>MSDS CODE:</b>	OSM
<b>SYNONYMS:</b>	N/A
<b>MANUFACTURED FOR:</b>	Osmose Utilities Services, Inc.
<b>EPA REGISTRATION NUMBER:</b>	75341-14
<b>VENDOR:</b>	N/A
<b>EMERGENCY PHONE:</b>	CHEMTREC: 1(800) 424-9300
<b>OTHER CALLS:</b>	716-882-5905
<b>ADDRESS:</b>	980 Ellicott Street, Buffalo NY 14209
<b>MSDS PREPARED BY:</b>	Teri Muchow
<b>DATE PREPARED:</b>	November 21, 2007
<b>DATE LAST REVISED:</b>	N/A

\*CHEMTREC'S EMERGENCY TELEPHONE NUMBER IS TO BE USED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

## HAZARD SUMMARY

### CAUTION

- Eyes -** May cause eye irritation.
- Skin -** May be harmful if absorbed through the skin.
- Ingestion -** May be harmful if swallowed.

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

TRADE NAME: MP400-EXT®	CAS	OSHA PEL	ACGIH TLV	OTHER	%
Sodium Tetraborate Decahydrate	1303-96-4	10 mg/m <sup>3</sup> (total dust)	5 mg/m <sup>3</sup>	N/A	43.7
Copper-8 Quinolinolate	10380-28-6	1 mg/m <sup>3</sup> Copper dusts & mists as Cu 0.1 mg/m <sup>3</sup> Copper fume as Cu	1 mg/m <sup>3</sup> Copper dusts & mists as Cu 0.2 mg/m <sup>3</sup> Copper fume as Cu	N/A	0.3
Tebuconazole	107534-96-3	N/A	N/A	N/A	0.2
Bifenthrin	82657-04-3	N/A	N/A	N/A	0.04
Glycerin	56-81-5	N/A	N/A	N/A	10.0
Thickeners	Proprietary	N/A	N/A	N/A	5 - 10
Surfactants	Proprietary	N/A	N/A	N/A	1 - 5
N-methyl-2-pyrrolidone	872-50-4	N/A	N/A	N/A	0.1
Water	7732-18-5	N/A	N/A	N/A	35 - 45

## SECTION III - CHEMICAL CHARACTERISTICS

BOILING POINT	MELTING POINT	FREEZING POINT	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	THEORETICAL VOC CONTENT (PERCENT OF WEIGHT)	
N/A	N/A	Not Determined	Approx. 1.28	3.0 g/l (EPA Method 24)	
WEIGHT PER GALLON	pH:	VAPOR PRESSURE	VAPOR DENSITY	DENSITY	EVAPORATION RATE BASIS (N-BUAC) = 1
Approx. 10.7 lbs./gal.	Approx. 9	N/A	N/A	N/A	Not Determined
PERCENT VOLATILE (BY WEIGHT)	VISCOSITY (mm <sup>2</sup> /s)	SOLUBILITY IN WATER	REACTIVITY IN WATER	APPEARANCE & ODOR	
Not Determined	N/A	Slightly Soluble	N/A	Brownish green paste, faint organic odor.	

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## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT		METHOD	FLAMMABLE LIMITS IN AIR (%)		AUTOIGNITION TEMPERATURE
N/A		N/A	N/A		N/A
<b>NFPA CODES</b>					
HEALTH		1	<b>HMIS CODES:</b>		HEALTH 1
FLAMMABILITY		0			FLAMMABILITY 0
REACTIVITY		0			REACTIVITY 0
OTHER		N/A			PROTECTION B
EXTINGUISHER MEDIA: Foam, carbon dioxide, water spray, and dry chemical.					

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes from combustion/decomposition products. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

## SECTION V - REACTIVITY DATA

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)? Y

CONDITIONS TO AVOID (REGARDING STABILITY): None known.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong reducing agents such as metal hydrides or alkali metals; Strong oxidizers such as chromium trioxide, potassium chlorate or potassium permanganate.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce CO, CO<sub>2</sub>, oxides of nitrogen and other potentially toxic gases.

HAZARDOUS POLYMERIZATION POSSIBLE (Y/N)? N

CONDITIONS TO AVOID (REGARDING POLYMERIZATION): N/A

## SECTION VI - HEALTH HAZARDS

ROUTES OF ENTRY: Skin contact and eye contact.

SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE: Harmful if swallowed or absorbed through skin. May cause redness or peeling of skin. Causes moderate eye irritation. Ingestion may cause gastrointestinal symptoms, including nausea, vomiting and diarrhea.

CHRONIC OVEREXPOSURE: Chronic overexposure to ingredients in this product has shown to have an adverse effect on the spleen, liver and kidneys.

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?:

- NATIONAL TOXICOLOGY PROGRAM (Y/N): N
- IARC MONOGRAPHS (Y/N): N
- OSHA (Y/N): N

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

ACUTE AND CHRONIC TOXICITY:

- Acute Oral LD50: > 5,000 mg/kg (rat)
- Acute Dermal LD50: > 5,000 mg/kg (rat)
- Eye Effects: Mildly irritating (rabbit)
- Skin Effects: Slightly irritating (rabbit)
- Dermal Sensitization (Guinea pig): Not a sensitizer



## EMERGENCY AND FIRST AID PROCEDURES



EMERGENCY PHONE NUMBER OF MANUFACTURER: CHEMTREC 1(800)

424-9300

1. INHALATION: If inhaled, remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available.
2. EYE CONTACT: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician is not available, flush for additional 15 minutes and then transport victim to medical care.
3. SKIN CONTACT: Wash with plenty of running water, and soap if available, for 15 minutes. Immediately remove contaminated clothing and shoes. Get immediate medical attention.
4. INGESTION: Immediately give 3 – 4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.

NOTES TO PHYSICIAN: No specific antidote is available. Treat poisoning victims symptomatically.

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## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

### **UNITED STATES DEPARTMENT OF TRANSPORTATION SHIPPING DESCRIPTION:**

Not regulated.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Wash thoroughly after handling. Reseal containers immediately after use. Store away from food and beverages.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Utilize protective clothing. Spill should be taken up mechanically and placed in appropriate containers. Wash down spill area with water. Collect wash water for approved disposal.

**WASTE DISPOSAL METHODS:** Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. Do not reuse container.

**CONTAINER DISPOSAL:** Do not use container in connection with food, feed or drinking water. 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 of out smoke.

## SECTION VIII - CONTROL MEASURES

**RESPIRATORY PROTECTION:** Respirator should not be necessary under normal use conditions.

**VENTILATION REQUIREMENTS:** Use local and general exhaust ventilation in order to control levels of exposure to this product.

**PROTECTIVE GLOVES:** Rubber or nitrile gloves.

**EYE PROTECTION:** Safety glasses with side shields, chemical safety goggles or face shield.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Protective clothing as necessary in order to prevent any skin contact with this product. Educate and train employees on the safe use and handling of this product.

**WORK/HYGIENIC PRACTICES:** As with all chemicals, avoid getting the product on you or in you. Wash hands after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Employees should wash their hands and face before eating, drinking, or using tobacco products.

**NOTE:** For additional control measures, refer to the MSDSs of all products used in conjunction with this product. If the use of another product requires a higher level of protective equipment, then the PPE requirements of that product should be followed.

## SECTION IX - REGULATORY INFORMATION:

### SARA/TITLE III ;SECTION 312 - HAZARD CATEGORIES:

**Immediate (Acute) Health: Yes**      **Reactive Hazard: No**  
**Delayed (Chronic) Health: Yes**      **Sudden Release of Pressure: No**  
**Fire Hazard: No**

### SECTION 302:

N/A

### SECTION 304:

N/A

### SECTION 311 & 312:

Storage of this product in excess of threshold levels will subject you to reporting under Section 311 and 312 of SARA. Under Section 311 you are required to submit material safety data sheets to your Local Emergency Planning Committee (LEPC), your State Emergency Response Commission (SERC) and your local fire department. Under Section 312 you are required to submit a Tier I or II Inventory Form to your LEPC, SERC and local fire department by March 1<sup>st</sup> of each year.

### SECTION 313:

The following listed ingredients in this product are SARA 313 listed toxic chemicals and are subject to Toxics Release Inventory reporting:



































N-Methylpyrrolidone, CAS #872-50-4  
Bifenthrin, CAS #82657-04-3  
Copper-8 Quinolinolate, CAS #10380-28-6 (Copper Compound Category)

**CALIFORNIA PROPOSITION 65** – N-Methylpyrrolidone is on the California Proposition 65 list of chemicals known to the State to cause reproductive toxicity. N-Methylpyrrolidone is present in the formulation at 0.1%.

The Attapulgite clay in this product contains crystalline silica. Attapulgite clay is present in the formulation at 6.5%. Crystalline silica may be present at levels of 0.065% to 0.65%. The State of California requires products containing crystalline silica to be label with the following statement: "Airborne particles of respirable size of crystalline silica are known to the State of California to cause cancer."

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**HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS)  
PERSONAL PROTECTION INDEX**

<b>A</b> 	<b>H</b>  +  +  + 
<b>B</b>  + 	<b>I</b>  +  + 
<b>C</b>  +  + 	<b>J</b>  +  +  + 
<b>D</b>  +  + 	<b>K</b>  +  +  + 
<b>E</b>  +  + 	<b>X</b> Ask your supervisor for guidance
<b>F</b>  +  +  + 	
<b>G</b>  +  + 	

N/A = Not Applicable

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