



DESCRIPTION

ORBIT is a state of the art, low moisture encapsulation carpet cleaner. Heavy soils such as oils and dirt are rapidly emulsified and absorbed into a bonnet or suspended in crystal form for later vacuuming when used with the brush method.

ORBIT's remaining crystals capture the soils and allow for easy release when vacuumed. Carpets look cleaner and brighter and resist resoiling longer.

ORBIT's immediate results and high productivity will increase customer satisfaction and enhance the health of the indoor environment.

pH on dilution: 9.2 – 9.4

Meets specifications for use on stain resistant carpet.

PREPARATION

Vacuum carpet thoroughly before beginning cleaning process.

Dilution Rates:

8 fl.oz.(236 mL) per 1 US gallon warm to hot water (3.78 L) (1:16)

Bonnet Cleaning:

Spray **ORBIT** dilution lightly on bonnet (or pad) for lubrication and evenly over carpet in path of rotary machine while "buffing" the carpet. When bonnet becomes soiled, use reverse side. Rinse soiled pads with warm water or store in plastic bag until laundering. Carpet should dry in 30 minutes or less if properly applied. After carpet is dry, vacuum thoroughly.

Brush and Vacuum System:

Apply dilution using a pump up sprayer or a machine with a spray system and agitation. Brush treated areas to loosen, emulsify and suspend soil. Allow carpet to dry completely, then vacuum to remove remaining encapsulated soil.

CAUTION

Before application, pretest for colorfastness in an inconspicuous area. Dilution may vary depending on soil conditions. Do not walk barefoot on wet carpet.

Dispose of unused use solutions according to applicable local and federal regulations. Read MSDS before use.



- **Fast Acting**
- **No Residue**
- **Dries to a Crystal**

Your customers deserve the red carpet treatment. We think you deserve it too!

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **ORBIT** WHMIS CODE: Not Regulated
Product Use: *Bonnet carpet emulsifier* Proper Shipping Name: N/A
Hazard Class: N/A
UN Number: N/A

HMIS	
1	Health
0	Flammability
0	Reactivity
B	Personal

A=Gloves, B=Goggles & Gloves
C=Goggles, Gloves and Apron

M-chem Technologies Inc
1607 Derwent Way
Delta, BC V3M 6K8, Canada
Phone: (604) 526-5655

EMERGENCY PHONE
Canada: Canutec 613-996-6666
U.S.A.: Chemtrec 800-424-9300

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
Tetrasodium Salt of Ethylenediaminetetraacetic Acid	64-02-8	1.0 - 5.0	N/A	N/A
LD50 (oral rat)	3030 mg/kg			
LD50 (dermal rabbit)	>5000 mg/kg			
LC50	>100 mg/L			

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear, mild (no added frag.) **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 9.0 – 9.5
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.03 @ 20°C
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Unusual Fire and Explosion Hazards: None. **Conditions of Flammability:** None.
Hazardous Combustion Products: Carbon and nitrogen oxides.
Special Fire Fighting: Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions.
Hazardous Polymerization: Will not occur.
Incompatibility (material to avoid): Strong oxidizing agents, strong bases.
Hazardous Decomposition Products: Oxides of carbon and sulfur may be formed during thermal decomposition.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin and eye contact, ingestion, inhalation.
Irritancy of Product: May be irritating to eyes. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Effects of Chronic Exposure: None known. **Teratogenicity:** None known.
Effects of Acute Exposure to Product: Product exposure may irritate eyes. Prolonged or repeated exposure to skin may cause dryness. Ingestion may cause gastro-intestinal or abdominal discomfort.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Not required for normal use of product.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural or butyl rubber, nitrile or neoprene gloves recommended.
Eye Protection: Normally not required. However, chemical goggles or safety glasses when eye contact may occur.
Protective Clothing and Equipment: Eyes wash recommended in the immediate work area.
Storage and Handling Procedures: Use good Industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers.
Waste Disposal Method: Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.
Special Shipping Information: Store at temperatures below 30°C. Keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with soap and clean water and rinse well. If irritation occurs or persists, get medical attention. If inhaled, move person to fresh air. If allergic respiratory reaction should occur, seek medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 07/04/11
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE