



P.O. BOX 11331 • CINCINNATI, OHIO 45211  
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## Material Safety Data

### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Maintain Multi Purpose Cleaner, Aquamate Tile & Liner Cleaner, Tile & Liner Cleaner, TVL

**Product ID:** 5600

**Synonyms:** None

**Date:** 02-01-2012

**Edition:** 4

**Sold By:**

Baleco International Inc  
3200 Stateline Road  
North Bend, Ohio 45052

<p>EMERGENCY PHONE NUMBERS 24-HOUR PHONE NUMBER: CHEMTREC: 1-800-424-9300 INFORMATION (513)353-3000</p>
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### SECTION 2 HAZARDS IDENTIFICATION

**Physical State:** Liquid

**Color:** Blue

**Odor:** Odorless

**Emergency Overview:** WARNING. This product contains a combustible liquid and vapor. May cause respiratory tract irritation. Contains a component that causes cancer. May cause skin and eye irritation. Avoid contact with skin, eyes and clothing.

**Potential Health Effects:**

**Primary Routes of Exposure:** Routes include eye and skin contact, ingestion and inhalation.

**Eye Contact:** May cause mild eye irritation. Corneal injury is unlikely.

**Skin Contact:** Prolonged exposure not likely to cause significant skin irritation.

**Inhalation:** Excessive exposure may cause irritation to upper respiratory tract.

**Ingestion:** Very low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling are not likely to cause injury.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Product Composition

Chemical Name	CAS #	Percentage (by weight)
Water	7732-18-5	.934 - .943
Dipropylene Glycol Monoethyl Ether (DPM)	34590-94-8	0.0142
Xanthan gum (Vanzan)	11138-66-2	.003-.004
1,2-Propanediol (Germaben II)	57-55-6	.002 - .004
Urea, N-(1,3-bis(hydroxymethyl)-N,N-bis(hydroxymethyl) (Germaben II)	78491-02-8	.001-.002
Benzoic Acid, 4-hydroxy-methyl ester (Germaben II)	99-76-3	0.001
Benzoic Acid, 4-Hydroxy-,propyl ester (Germaben II)	94-13-3	0.001
Alcohols, C6-10, ethoxylated, fumarated, sodium salts (Plurafac CS-1)	102900-02-7	.013-.015
Sodium Tripolyphosphate Anhydrous (STPP)	7758-29-4	.016-.018
Tetrasodium Pyrophosphate TSPP (STPP)	7722-88-5	0.001
Sodium Trimetaphosphate (STPP)	7785-84-4	0.001
Carbopol 940	9003-01-4	.004-.005

**SECTION 4 FIRST AID MEASURES**

**Eye Contact:** In case of contact, immediately rinse eye(s) with plenty of water for at least 15 minutes. Remove contact lenses if present, after first 5 minutes and continue rinsing eye(s). If irritation develops and/or persists, seek medical attention.

**Skin Contact:** Wash affected areas with soap and water. Remove contaminated clothing and wash before re-use. Seek medical attention if irritation develops.

**Ingestion:** Do not induce vomiting. Drink plenty of water and seek medical attention. DO NOT give anything by mouth if the person is unconscious or is having convulsions.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms occur.

**SECTION 5 FIRE FIGHTING MEASURES**

**Flash point Not applicable.**

**Auto Ignition Temperature:** Not applicable.

**Flammable limits at normal atmospheric temperature and pressure (% volume in air):** Not Applicable

**Suitable Extinguishing media:** Water, dry extinguishing media, carbon dioxide, foam.

**Fighting rocedures:** SCBA and protective clothing should be worn in fighting fires involving chemicals. No known unusual fire or explosion hazards.

**HMIS Ratings:**

- Health: 1
- Flammability: 0
- Reactivity: 0

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear appropriate personal protective equipment. Keep unnecessary and unprotected personnel away from area. Ensure adequate ventilation.

**Environmental Precautions:** Prevent entry into drains, sewers, waterways, soil and groundwater.

**Methods for Cleaning Up:** Spills should be contained. Soak up with an inert absorbent material and place in suitable containers for disposal. See Section 13 Disposal Considerations for additional information.

**SECTION 7 HANDLING AND STORAGE**

**Handling:** Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed.

**Storage:** Keep container tightly closed and store in a cool, dry, well-ventilated area.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits**

Component	OSHA	ACGIH	Other
Carbopol 940	TWA 1ppm, STEL 25 ppm©	TWA 0.50 ppm, STEL 2.50 PPM	TWA 0.10ppm
Xanthan gum			(PNOR) TWA 15 mg/m3 total dust 5mg/m3 respirable dust
Di propylene glycol			DOW IHG TWA aerosol 10 mg/m3
Monomethyl ether	PEL 600mg/m3 100ppm skin	TWA 100 ppm STEL 150ppm skin	
Sodium Tripolyphosphate Anhydrous	TWA 15mg/m3 total dust – 8hr TWA 5mg/m3 respirable 8-hr	10mg/m3 inhalable 8-hr TWA 3 mg/m3 respirable 8-hr TWA	

**Engineering Measures:** Use only in well-ventilated areas.

**Hygiene Measures:** Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Handle in accordance with good industrial hygiene and safety practice. Eyewash and safety showers are recommended.

**Respiratory Protection:** Use NIOSH/MSHA approved respiratory protection equipment if airborne exposure limits are exceeded. Respirator type: NIOSH/MSHA approved HEPA filter plus organic vapor cartridge

**Eye Protection:** Wear safety glasses or chemical safety goggles.

**Hand Protection:** Wear chemical resistant impervious gloves.

**Skin Protection:** Personal protective equipment for the body should be selected based upon the task being performed. Wear apron, coverall and boots as necessary to minimize contact.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid.

**Color:** Blue.

**Odor:** Mild.

**Odor Threshold:** Not Available.

**Flash point:** Not applicable.

**Melting point:** Not Applicable.

**Boiling point:** 100°C.

**Decomposition Temperature:** Not applicable.

**Specific Gravity:** 1.0.

**Bulk Density:** Not Applicable.

**pH:** (at 25 deg C) 8.3.

**Vapor Pressure:** @ 25 °C: No data.

**Solubility in Water:** Miscible.

**Volatiles, Percent by Volume:** >90%.

**Evaporation Rate:** Not available.

**Vapor Density:** Not available.

## SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of handling, use and transportation.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Temperatures above 100°C.

**Materials to Avoid:** Avoid contact with oxidizing materials.

**Hazardous Decomposition Products:** None known.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

**For component Carbopol 940:** LD50(dermal): >2,000mg/kg, rabbit. LD50(oral): >10,000 mg/kg, rat.

**For component Plurafac CS-1):** LD50(oral): >5000 mg/kg, rat.

**For component STPP:** LD50(oral): 5,400 mg/kg, rat, practically non-toxic. LD50(dermal): > 7,940 mg/kg, rabbit, practically non-toxic. LC50(inhalation): >0.39 mg/l (rat, 4 hr).

**For component Germaben II:** Acute oral toxicity: > 2,000 mg/kg (Rat). Acute dermal toxicity: >2,000 mg/kg (rabbit).

**For component DPM:** LD50 (Ingestion): Rat 5,135 mg/kg. LD50 (Skin Absorption): Rabbit >20 ml/kg. LC50 (Inhalation): 7 hr, Aerosol, Rat > 500 ppm.

**For component Vanzan:** LD50 (Oral): rat, 45,000 mg/kg. LD50 (Oral): Mouse, 20,000 mg/kg. LC50 (Inhalation): Rat, 21 mg/l, 1 hour.

**Chronic Toxicity:** There are no known or reported effects from repeated exposure.

**Developmental and reproductive toxicity:** There are no known or reported effects on reproductive function or fetal development.

**Carcinogenicity:** This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

**Mutagenicity:** This product is not known or reported to be mutagenic.

**Inhalation:** if inhaled, mild irritation may result to the throat, upper respiratory tract, and lungs. Any irritation would be transient with no permanent damage expected.

**Eyes:** Contact with eyes would be expected to cause irritation consisting of reversible redness swelling and mucous discharge to the conjunctiva. No corneal involvement or visual impairment would be expected.

**Skin:** Skin contact may cause irritation consisting of transient redness. This irritant effect would not result in permanent damage.

**Ingested:** If ingested, gastroenteritis may occur with nausea, vomiting, lethargy and diarrhea.

**Remarks:** There are no medical conditions known to be aggravated by exposure. There are no chemicals known to enhance the toxicity of the product.

## SECTION 12 ECOLOGICAL INFORMATION

### Ecotoxicity of Components:

**For component Germaben II:** Daphnia Magna, 48 hr EC50: 34.9 mg/L; NOEL 21.6 mg/L. Bluegills, 96 hr LC50: >100 mg/L; NOEL 60 mg/L. Rainbow trout, 96 hr LC50: >100 mg/L; NOEL 100 mg/L. Acute Oral LD50: >2,250 mg/kg (northern bobwhite). 5-Day subacute dietary studies produced no evidence of toxicity at concentration up to 5,620 ppm (diazolidinyl urea).

**For Component STPP:** Invertebrate: 48 hr LC50 Daphnia Magna: > 1000 mg/L. 96 hr LC50: >100 mg/L, non-toxic (Rainbow trout, Inland silversides and mysid shrimo). 48 hr LC50: >100mg/L, non-toxic (Daphnia Magna).

**For Component Plurafac CS1:** Acute and prolonged toxicity to fish: LC50 (96hr): 140 mg/L. Acute toxicity to aquatic invertebrates: static, Daphnia magna/EC50 (48 hr): 240 mg/L.

**For Component Carbopol 940:** Freshwater fish toxicity: Acute LC50 is >1000 mg/L. Freshwater invertebrates toxicity: Acute EC50 is >1000 mg/L.

**For Component DPM:** Fish acute and prolonged toxicity: LC50, fathead minnow(Pimephales promelas), static, 96 hr is > 10,000 mg/l. Aquatic invertebrates acute toxicity: LC50, water flea Daphnia magna, 48 hr is 1,919 mg/l. Aquatic plant toxicity: EC50, green alga Selastrum capricornutum, biomass growth inhibition, 96 hr is >969 mg/l.

**For Component Vanzan:** LC50: 420 mg/l, fish-Rainbow trout, 96 hours.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Waste must be disposed of in accordance with Federal, State, and Local laws and regulations.

## SECTION 14 TRANSPORTATION INFORMATION

This material is not regulated as a DOT hazardous chemical.

## SECTION 15 REGULATORY INFORMATION

**Toxic substances control ACT:** The components of this product are listed on the Toxic Substances Control Act inventory.

### Superfund Amendments and Reauthorization ACT TITLE III:

HAZARD CATEGORIES, PER 40 CFR 370.2

HEALTH: Immediate (acute)

PHYSICAL: None

## SECTION 16 OTHER INFORMATION

References Available Upon Request

The information in this material safety data sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. . Additionally, if this material safety data sheet is more than three years old, you should contact Baleco at the

phone number listed in section 1 to make certain that this sheet is current.

This material safety data sheet (MSDS) has been prepared in compliance with the federal OSHA hazard communication standard, 29 CFR 1910.1200. This product may be considered to be a hazardous chemical under that standard. (Refer to the OSHA classification in section i). This information is required to be disclosed for safety in the workplace. The exposure to the community, if any, is quite different.

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