

SAFETY DATA SHEET (SDS)



MAINTAIN C1 (FOR WALLS & FLOORS) ANTI – MICROBIAL TREATMENT

Date Revised : 02/15 Supercedes : 07/12

"MAINTAIN C1 ANTI - MICROBIAL TREATMENT" (For Walls & Floors) EPA Reg. No. 67212-2

and "Sick Building Syndrome".

HEALTHY CLEAN BUILDINGS

4 Wilmington Drive Melville, New York 11747

Refer to Product label

1-631-643-1882

An antimicrobial treatment that controls and inhibits the growth of microorganisms - such as gram positive and gram negative bacteria, and mold - on floors and walls. By controlling known biological pollutants that promote poor Indoor Air Quality (" IAQ ") this product is essential to maintaining the quality of air inside buildings and reducing further damage to surfaces and objects as well as occupants. is specially formulated not only to control the growth of microorganisms on floors and walls, but its residual effect inhibits the re-growth of microbes for months. It controls contaminants that often cause poor Indoor Air Quality (" IAQ ")

CHEMTRAC (24 hrs) - (ref: BBJ Maintain C 1): 1-800-424-9300

E.P.A. REGISTERED POST PREVENTATIVE MOLD INHIBITOR CONTROLS POOR INDOOR AIR QUALITY

SECTION 1 : IDENTIFICATION OF SUBSTANCE / COMPANY **PRODUCT NAME / IDENTIFIER :**

PRIMARY APPLICATION / RECOMMENDED USAGE :

DISTRIBUTED EXCLUSIVELY BY :

INFORMATION TELEPHONE : **EMERGENCY** TELEPHONE : USAGE RESTRICTIONS :

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of substance or mixture Classification (REGULATION (EC) No 1272/2008) Eye Irritant 2A [H319] Label Elements Labeling (REGULATION (EC) No 1272/2008)

Hazard Symbols

Signal Word: Hazard Statement(s): **Precautionary Statements:** [Prevention]

[Response]

Warning H319 - Causes serious eye irritation.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, eye protection and face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

Labeling (67/548/EEC to 1999/45/EC)





Risk Phrases:

R36 - Irritating to eyes.

S2 - Keep out of the reach of children. Safety Phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. MAINTAIN C1 Floors / Walls page 1 S37/39 - Wear suitable gloves and eye/face protection.



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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixtures

Chemical characterization (preparation)

Aqueous mixture

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
<50	Dipropylene glycol monomethyl ether	34590-94-8	252-104-2		
<5	2-Bromo-2-nitropropane-1,3-diol	52-51-7	200-143-0	603-085-00-8	Xn, R21/22; Xi, R37/38, R41; N,50
<5	Citric Acid	77-92-9	201-069-1		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

Inhalation: If product vapors or mists cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek prompt medical attention if rash develops.

Ingestion: Rinse mouth with water. If conscious and alert drink 2 - 4 cupfuls of milk or water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: May cause moderate eye irritation and possible eye damage. May cause chemical conjunctivitis and corneal damage. Skin: May cause mild skin irritation.

Inhalation: Inhalation of mists, vapors and/or spray may cause irritation of the respiratory system.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Chronic: No information available.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishable media

Suitable methods of extinction: Water fog, water spray, dry chemical, alcohol resistant foam and carbon dioxide. Unsuitable methods of extinction: None known

Special hazards arising from the substance or mixture

Solutions containing glycol ethers such as dipropylene glycol monomethyl ether in water can form flammable vapors with air if heated sufficiently. Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing designated in Section 8. Ventilate the area.

Environmental precautions

Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways.

Methods and materials for containment and cleaning up

Cover drains. Cover with a large quantity of inert absorbent. Collect product using a shovel or broom and into place into an approved container for proper disposal. Observe possible material restrictions (section 7.2 and 10.5). Clean contaminated area with soap and water.

Reference to other sections

For indications about waste treatment, see section 13.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use. Advice on protection against fire and explosion

Keep away from heat, sparks and flame. Solutions containing glycol ethers in water can form flammable vapors with air if heated sufficiently. Conditions for safe storage, including any incompatibilities

Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep out of reach of children.

Specific end uses

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

CAS Number	Ingredient	OSHA PEL	ACGIH TLV
34590-94-8	Dipropylene glycol monomethyl ether	600 ppm; 100 ppm - SKIN	100 ppm TWA; 150 ppm STEL; SKIN DES

Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to See Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory Protection: Always use an approved respirator when vapor/aerosols are generated. Where risk assesmant shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into drains.



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SEC	TION 9 - PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and che	nical properties
Appearance	Clear, colorless liquid
Odor	Mild
Odor Threshold	Not determined
Molecular Weight	Not applicable
Chemical Formula	Not applicable
рН	2.5 - 4.5 @ 20°C (68°F)
Freezing/Melting Point	< -8.3°C (< 17°F)
Initial Boiling Point	65.5°C (150°F)
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Flash Point	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Lower Explosive Limit (LEL)	Not determined
Upper Explosive Limit (UEL)	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity	1.00 - 1.10
Viscosity	Not determined
Solubility in Water	Complete
Partition Coefficient: n-octanol/water	<1
Volatiles by Volume @ 70° F	95%
Other data No data available	
	SECTION 10 - STABILITY AND REACTIVITY

Reactivity

No special reactivity has been reported. Hazardous polymerization will not occur.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Reacts with strong oxidizing agents, amines and alkalis. Product decomposes on burning and may produce irritating fumes.

Conditions to avoid

Extreme temperatures. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents, amines and alkalis

Hazardous decomposition products

Thermal decomposition products include carbon oxides, nitrogen oxides, aldehydes, ketones, organic acids, formaldehyde.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute Oral Toxicity LD50 - Rat: >5,000 mg/kg Acute inhalation toxicity LC50 - Rat: >2.09 mg/l



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TOXICOLOGICAL INFORMATION (continued)

Acute dermal toxicity LD50 - Rat: >5,000 mg/kg	
Skin irritation Rabbit - Slightly irritating to skin	
Eve irritation	
Draize Test - Rabbit: Moderately irritating to eye; conjunctivitis - 1 h; s	ome instances of corneal opacity - 24 h.
Sensitization	
Buehler Method - Guinea pig: negative	
Genotoxicity in vitro	
No data available	
Mutagenicity	
No data available	
Specific organ toxicity - single exposure	
May cause respiratory irritation	
Specific organ toxicity - repeated exposure	
No data available	
Aspiration hazard	
No data available	
Further information	

Further data: Handle in accordance with good industrial hygiene and safety practice.

Chronic Effects: The components of this material are not listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity and/or teratogenicity of this material, nor is there any available data that indicates it causes adverse developmental and/or fertility effects.

RTECS #: JM1575000 (Dipropylene glycol monomethyl ether); TY3385000 (2-Bromo-2-nitropropane-1,3-diol); GE7810000 (Citric Acid)

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Aquatic Ecotoxicity - Dipropylene Glycol Monomethyl Ether

LC50 - Pimephales promelas (Fathead minnow), static, 96 h: >10,000 mg/L Acute and prolonged toxicity to fish: LC50 - Daphnia magna (Water flea), static, 24 h: 1,919 mg/L Acute toxicity to aquatic invertebrates: ErC50 - Pseudokirchneriella subcapitata (Green algae), static, growth inhibition, 96 h: >969 mg/L Acute toxicity to aquatic plants: Chronic toxicity to aquatic invertebrates: LC50 - Daphnia magna (Water flea), flow-through, 22 d, reproduction NOEC: >0.5 mg/L, LOEC: >0.5 mg/L Aquatic Ecotoxicity - 2-Bromo-2-nitropropane-1,3-diol Acute and prolonged toxicity to fish: LC50 - Oncorhynchus mykiss (Rainbow trout) 96 h: 41.2 mg/L

Acute toxicity to aquatic invertebrates: EC50 - 48 h: 1.4 mg/L Acute toxicity to aquatic plants:

EC50 - 72 h: 0.4 - 2.8 mg/L

Persistence and degradability

Biodegradability

Material is expected to be biodegradable.

Bioaccumulation potential

Partition coefficient/n-octanol in water is <1; therefore, material is not expected to bioaccumulate.



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ECOLOGICAL INFORMATION (continued)

Mobility

Potential for mobility of this product in natural bodies of water or moist soil is not expected to be an important fate process. The EPA does not have specific data for mobility of Bronopol in soil; however it does not anticipate ground water contamination from the use of this material. Based on the that dipropylene glycol monomethyl ether is completely miscible with water, it is assumed that there will be no tendency for accumulation to soil and sediment in a soil-water matrix.

Results of PBT and vPvB assessment

No data available

Other adverse effects Additional ecological information No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

This material is not regulated for transport. Marine Pollutant: This product is a not a marine pollutant. Signal Word: Warning Hazard Symbols: GHS07; XiN (EEC)

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for substance or mixture U. S. Federal Regulations

OSHA Hazard Communication Standard: This material contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200). IRRITANT

OSHA Process Safety Management Standard: Components of this product are not regulated under OSHA PSM Standard 29 CFR 1910.119. EPA Risk Management Planning Standard: Components of this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.



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REGULATORY INFORMATION (continued)

SARA 302/304 Extremely Hazardous Substance

No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA. SARA 302/304 Emergency Planning & Notification:

No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): Contains no chemicals regulated under CERCLA.

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b). This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories

2-Bromo-2-nitropropane-1,3-diol (CAS #52-51-7) is listed on the following State Inventories or Right-to-Know lists: DE Air Quality Management. Canada

WHMIS Hazard Symbol and Classification: None allocated

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): Citric Acid listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): None of the ingredients in this product are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 2 for the concentrate. Classified as non-hazardous when diluted 40:1 for use.

Chemical Inventory Lists

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Country	Inventory Name	Inventory Listing*
Canada:	Domestic Substance List (DSL).	Yes
Canada:	Non-Domestic Substance List (NDSL).	No
Europe:	Inventory of New and Existing Chemicals (EINECS)	Yes
United States:	Toxic Substance Control Act (TSCA)	Yes
Australia:	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand:	New Zealand Inventory of Chemicals (NZIoC)	Yes
China:	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan:	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea:	Existing Chemicals List (ECL)	Yes
Philippines:	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country. *"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.



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SECTION 16: OTHER INFORMATION



DISCLAIMER : This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material . The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance . This information is offered in good faith by HEALTHY CLEAN BUILDINGS and no warranty, expressed or implied, is made . The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label (and such), or from any hazards inherent in the nature of the product . This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes : CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TS-Trade Secret; TWA-Time Weighted Average