

MATERIAL SAFETY DATA SHEET

WX2100™

Super-hydrophobic aerosol coating for domestic and commercial applications to repel water, snow and ice.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WX2100™
MANUFACTURER: Cytonix Corporation
ADDRESS: 8000 Virginia Manor Road, Beltsville, MD 20705
US INFORMATION: Dr. Elaine Lanza, 888-CYTONIX, INTERNATIONAL: 301-470-6267, and FAX: 301-470-6269
EUROPEAN INFORMATION: Dr. Martin Schmitt, +49 671 76304, and Fax: +49 671 74644
EMERGENCY ONLY: 800-424-9300 Chemtrec; (905) 791-1788 Communications & Regulatory Affairs Department
WEB ADDRESS: www.cytonix.com
PRODUCT USE: Domestic or professional use as water repellent and snow/ice resistant coating. Not intended for use as part of a medical device or drug.
REVISION: 1/13/2010

PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably won't help the non-professional. Cytonix includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, don't hesitate to call us at 888-CYTONIX or 301-470-6267.

WX2100 is an aerosol spray for domestic or commercial applications to repel water, snow and ice from microwave antennas. It is composed of mineral spirits and fluorinated resins that are propelled by a mixture of Propane and Butane. These substances can be irritating to skin, lungs and eyes. Avoid extended exposure to unprotected skin, getting it in your eyes or breathing heavy mist in a confined space.

Flammability: WX2100 is considered to be flammable under standard industry tests and does contain a propane/isobutane propellant ("gas grill" fuel). Be aware of ignition sources in your area when dispensing this product. Flammable propellant is heavier than air and will travel along the floor for some distance.

Disposal: Aerosol products are considered non-hazardous for disposal if they are depressurized and empty. Per U.S. Federal regulations, an aerosol is considered to be empty if it has less than 1 inch of fluid left inside. Aerosols that fail to spray out completely and remain pressurized can be safely punctured so that the concentrate can be used as intended and the container discarded as non-hazardous waste.

SECTION 2: INGREDIENTS

INGREDIENT ¹	Wt%	C.A.S. NUMBER	SARA 313
MINERAL SPIRITS	~75	68551-17-7	NO
FLUORO-COMPOUNDS ²	~15	PROPRIETARY	NO
LP GAS (PROPELLANT)	~10	68476-85-7	NO
Buta-1,3-diene	< 0.1	106-99-0	NA

¹ Under the provisions of REACH, the components of this mixture are currently sold within the European Union in quantities less than 1000 Kg and are exempt from registration at the European Chemicals Agency in Helsinki.

² One or more of the FLUORO-COMPOUNDS in this product are subject to a Polymer Exemption under 40 CFR Part 723, (60) FR16316-16336.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Specific Physical Form: Liquid suspension
Odor, Color: Petroleum, white when dispersed.

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General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Flammable. High-pressure liquid and gas. Irritating to eyes, respiratory system and skin.

HMIS RATING: HEALTH 1, FLAMMABILITY 3, REACTIVITY 0

NFPA RATING: HEALTH 1, FLAMMABILITY 3, REACTIVITY 0

POTENTIAL CHRONIC HEALTH EFFECTS

Carcinogenic Effects: NTP: No, IARC: No, OSHA: No

Mutagenic Effects: None

Teratogenic Effects: None

Medical conditions aggravated by exposure: Persons with pre-existing skin disorders or chronic respiratory diseases should avoid exposure.

SIGNS AND SYMPTOMS

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high mist concentrations may cause irritation of throat and lungs.

SECTION 4: FIRST AID MEASURES

Eyes: Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.

Skin: Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.

Inhalation: Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammable Hazard. Explosion Hazard. May form explosive mixtures with air, and vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

Autoignition temperature - 450°C (for pure Propane; unknown for mixture)

Flash Point -104°C (for pure Propane; unknown for mixture)

Flammable Limits - LEL 2.1% (for pure Propane; unknown for mixture)

Flammable Limits - UEL 9.5% (for pure Propane; unknown for mixture)

EXTINGUISHING MEDIA

For small fires (< 450 liters): use media such as "alcohol" foam, dry chemical, or carbon dioxide.

For large fires (≥ 450 liters): apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

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PROTECTION OF FIRE FIGHTERS

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Flammable. Vapor may travel considerable distance to source of ignition and flash back. Emits toxic fumes under fire conditions. Specific Method(s) of Fire Fighting: Do not extinguish burning gas if flow cannot be shut off immediately. Use water spray or fog nozzle to keep canisters cool. Move canisters away from fire if there is no risk.

Hazardous Thermal Decomposition Products: Hydrogen Fluoride, Perfluoroisobutylene (PFIB) At Flame Temperatures. Hydrogen fluoride has an ACGIH Threshold Limit Value of 3 parts per million (as fluoride) as a Ceiling Limit and an OSHA PEL of 3 ppm of fluoride as an eight hour Time-Weighted Average and 6 ppm of fluoride as a Short Term Exposure Limit. The odor threshold for HF is 0.04 ppm, providing good warning properties for exposure. Decomposition of this product at temperatures above 300 degrees C can form small amounts of perfluoroisobutylene (PFIB), but PFIB will only accumulate with continuous exposure to excessive heat in a sealed vessel or a small, unventilated area. The formation rate for PFIB is about 1000 times less than the rate for primary thermal decomposition products such as HF. During normal use conditions, no health hazard is associated with the use of this material due to PFIB exposure.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures For Small Quantities: Observe precautions from other sections. Shut off all sources of ignition if in a closed space. Ventilate the area with fresh air. Clean up liquid or solid residues with soapy water. Dispose as with typical house paint products.

Accidental Release Measures For Large Quantities: Observe precautions from other sections. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Shut off all sources of ignition. Ventilate the area with fresh air. Contain liquid spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Clean up residue with an appropriate organic solvent. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

SECTION 7: HANDLING AND STORAGE

HANDLING

Do not breathe gas. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure. Store work clothes separately from other clothing, food and tobacco products. No smoking. Smoking while using this product can result in the formation of the hazardous decomposition products.

STORAGE

Contents under pressure. Keep away from heat, sparks, and open flame. Make sure canister is properly capped when not in use. Stored canister temperature should not exceed 120°F (52°C). Store away from heat and direct sunlight.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Store canisters as Level 3 Aerosol (NFPA 30B). Store all materials in dry, well-ventilated area. Avoid breathing vapors.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

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PERSONAL PROTECTION

Eyes: Safety goggles.

Respiratory: Use a cartridge style respirator effective on alkali (such as the 3M™ N95 or equivalent) if ventilation is inadequate.

Hands: Use nitrile or neoprene rubber gloves for repeated handling.

GENERAL HYGIENE CONSIDERATIONS

Wash thoroughly after handling. Do not smoke while using this product.

EXPOSURE LIMITS

USA ACGIH 8H TWA 100 PPM

USA OSHA. 8H TWA 500 PPM

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form: Solids dispersed in liquid and LP gas

General Form: Liquid

Odor and Color: Petroleum odor, white

Boiling point: NA

Density: NA

Vapor Density: NA

Vapor Pressure: ND

Specific Gravity: NA

pH: NA

Melting point: NA

Solubility In Water: nil

Evaporation rate: NA

Volatile Organic Compounds: Exempt

Percent volatile: ~ 85 %

VOC Less H₂O & Exempt Solvents: Exempt

Viscosity: NA

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Strong bases and alkali metals.

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high mist concentrations may cause irritation of throat and lungs. . The chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: ECOLOGICAL INFORMATION

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Reclaim if feasible. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HF.

EPA HAZARDOUS WASTE NUMBER: Not regulated

SECTION 14: TRANSPORT INFORMATION

DOT

Proper Shipping Name: Consumer Commodity

UN#: 1950

Hazard Class/Label: ORM-D/ORM-D

Packing Group: NA

Emergency Response Guide: NA

IATA

Proper Shipping Name: AEROSOLS, FLAMMABLE

IATA UN Number: 1950

Hazard Class/Label: 2.1/Flammable Gas

Packing Group: NA

Emergency Response Guide: NA

IMDG

Proper Shipping Name: AEROSOL

IATA UN Number: 1950

Hazard Class/Label: 2.1/Flammable Gas

Packing Group: NA

Emergency Response Guide: F-D, S-U

SECTION 15: REGULATORY INFORMATION

311/312 HAZARD CATEGORIES

Fire Hazard - Yes

Pressure Hazard - Yes

Reactivity Hazard - No

Immediate Hazard - Yes

Delayed Hazard - No

CHEMICAL INVENTORIES

One or more chemical components of this material have been commercialized under the TSCA polymer exemption at 40CFR723.250. Polymers subject to this exemption are not listed on the TSCA Inventory, but are in compliance with TSCA requirements. The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact Cytonix for more information.

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SECTION 16: OTHER INFORMATION

NFPA HAZARD CLASSIFICATION

Health: 1 Flammability: 3 Reactivity: 0

HMIS HAZARD CLASSIFICATION

Health: 1 Flammability: 3 Reactivity: 0

This substances in this product do not comprise PFOS or PFOA.

WX2100™ is a trademark of the Cytonix Corporation.

DISCLAIMER: This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200 and is believed to be correct as of the date issued.

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