



WX2100™ - Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **WX2100™**

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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.

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.

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	Wt%	C.A.S. NUMBER
Mineral Spirits	75	8032-32-4
Fluorocarbons	15	Proprietary
LP GAS (PROPELLANT)	10	68476-85-7

This formulation does not contain PFOA or PFOS and does not derive from compounds comprising these materials. 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. Volatile components of Fluoro-Compounds are VOC exempt per Federal Register August 25, 1997 [Volume 62, Number 164].

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid suspension

Odor, Color: Petroleum, white when dispersed.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Flammable. High-pressure liquid and gas. Irritating to eyes, respiratory system and skin. Medical conditions aggravated by exposure: diseases of the skin, liver and kidneys.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact: Contact with eyes during product use may cause irritation, redness stinging, tearing, excessive swelling of the conjunctiva; and or excessive blinking.

Skin Contact: This product is a skin irritant. It may be absorbed through the skin. It may cause dermatitis, drying of the skin, and numbness of fingers and arms.

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Inhalation: Harmful vapor. Inhalation may cause dizziness, headaches, irritation of the respiratory tract, weakness, depression of the central nervous system, and watering of the eyes. Severe overexposure may cause unconsciousness.

Ingestion: Harmful or fatal if swallowed. May cause nausea, vomiting, gastrointestinal irritation, or diarrhea.

3.3 SIGNS AND SYMPTOMS OF EXPOSURE

Stinging 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.

3.4 POTENTIAL ENVIRONMENTAL EFFECTS

A minor component resists degradation in most natural environments. Thermal decomposition, >250°C, will generate hydrogen fluoride which is corrosive.

SECTION 4: FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed:

Eye Contact: 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 Contact: 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

5.1 FLAMMABLE PROPERTIES

Flammable Hazard. Explosion Hazard. May form explosive mixtures with air 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)

5.2 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.

5.3 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.

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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

7.1 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.

7.2 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

8.1 ENGINEERING CONTROLS

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

8.2 PERSONAL PROTECTION

Eyes: Safety goggles.

Respiratory: Use a cartridge style NIOSH certified 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.

8.3 GENERAL HYGIENE CONSIDERATIONS

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

8.4 EXPOSURE GUIDELINES

USA ACGIH TWA 2500 PPM

USA OSHA. PEL 8H TWA 1000 PPM (1800 MG/M3)

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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. Heat, sparks, flames, and other ignition sources; avoid heating above 290°C/554°F.

Hazardous Polymerization: Hazardous polymerization will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

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

Mutagenic Effects: None

Teratogenic Effects: None

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



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Hazard Class/Label: 2.1/Flammable Gas

Packing Group: NA

Emergency Response Guide: F-D, S-U

SECTION 15: REGULATORY INFORMATION

CHEMICAL INVENTORIES

Components of this product are listed on the Toxic Substances Control Act (TSCA) Section 8(b) Chemical Inventory or 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. 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.

311/312 HAZARD CATEGORIES

Fire Hazard - Yes

Pressure Hazard - Yes

Reactivity Hazard - No

Immediate Hazard - Yes

Delayed Hazard - No

SECTION 16 - ADDITIONAL INFORMATION

NFPA HAZARD CLASSIFICATION

Health: 1

Flammability: 3

Reactivity: 0

HMS HAZARD CLASSIFICATION

Health: 1

Flammability: 3

Reactivity: 0

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

Mutagenic Effects: None

Teratogenic Effects: None

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued.

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