

Varnish, Fluoride 5%

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MATERIAL SAFETY DATA SHEET**SECTION 1 - IDENTIFICATION**

Product identifier : **Varnish, Fluoride 5%**

Product Code(s) : 1011-BG32; 1011-BG200; 1011-RB32; 1011-RB200; 1033-BG32; 1015-SM32; 1015-WB32; 1030-SM32; 1030-WB32; 1015-SM250; 1015-WB250; 1030-SM250; 1030-WB250; 10011-US; 10033-CN; 1011-SMPL; SP-1015; SP-1017; SP-1030; 093-2822; 093-2830; 093-2814; SP-093-2822

Product Use : Prevents caries, anti-cavity for dental procedures. Efficient treatment against hypersensitive teeth.

Chemical Family : Mixture

Supplier's name and address:
A.R. Medicom Inc
1200 55th Avenue
Montreal, QC, Canada
H8T 3J8

Manufacturer's name and address:
Refer to Supplier

Information Telephone # : (514) 636-6262 or (800) 308-6589

24 Hr. Emergency Tel # : (613) 996-6666 (CANUTEC)

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: This product is not a WHMIS controlled product in Canada. This product is a Drug Product and is therefore not regulated as a Controlled Product under the Hazardous Products Act (HPA).

OSHA: This product is regulated under the Food and Drugs Act as a Drug product.

Emergency Overview : Off white liquid. Sweet odour.
Caution! Contact with acids liberates very toxic gas. May cause mild skin irritation. May cause moderate eye irritation. Ingestion of large amounts may be harmful. Possible mild dermatitis (rash). May cause skin sensitization. Ethanol has been shown to cause mutagenic effects but at extremely high oral doses, which are not applicable in an occupational setting.

POTENTIAL HEALTH EFFECTS:**Signs and symptoms of short-term (acute) exposure**

Inhalation : Not an expected route of entry.

Skin : May cause mild skin irritation.

Eyes : May cause moderate eye irritation. Symptoms include: Irritation, redness and watering.

Ingestion : May cause irritation to the mouth, throat and stomach.

Effects of long-term (chronic) exposure

: Prolonged or repeated skin contact may cause defatting and drying resulting in irritation and possible dermatitis.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

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| <u>Ingredients</u> | <u>CAS #</u> | <u>Wt.%</u> |
|--------------------|--------------|---------------|
| Sodium fluoride | 7681-49-4 | 1.00 - 10.00 |
| Ethanol | 64-17-5 | 10.00 - 30.00 |
| Rosin | 8050-09-7 | 50.00 - 70.00 |

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact** : Wash off with soap and plenty of water. If irritation persists, seek prompt medical attention. Wash contaminated clothing before re-use.
- Eye contact** : If in eyes, rinse with water for 15 minutes. Get medical attention.
- Ingestion** : Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES**Fire hazards/conditions of flammability**

- : Not flammable under normal conditions of use.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Combustible Liquid Class III B.

Oxidizing properties

- : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so.

Hazardous combustion products

- : Hydrofluoric acid; Toxic fumes, gases or vapours may evolve on burning.

NFPA Rating

- | | | | |
|------------------|------------------------|-----------------------|-------------------------------|
| 0 - Minimal | 1 - Slight | 2 - Moderate | 3 - Serious |
| <i>Health: 1</i> | <i>Flammability: 1</i> | <i>Instability: 0</i> | <i>Special Hazards: None.</i> |

SECTION 6 - ACCIDENTAL RELEASE MEASURES**Personal precautions**

- : Restrict access to area until completion of clean-up. Individuals involved in the cleanup must wear appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Spill response/cleanup

- : Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Prohibited materials

- : None known.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None reported.

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SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Wear chemically resistant protective equipment during handling. Use only in well-ventilated areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid contact with incompatible materials. Keep container tightly closed when not in use. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area. Inspect periodically for damage or leaks.
- Incompatible materials** : Strong acids and oxidizing agents; glass; alkalis; metals.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

| <u>Exposure Limits</u> | | | | |
|------------------------|------------------|-------------|-----------------------------------|-------------|
| <u>Ingredients</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
| | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| Sodium fluoride | N/Av | N/Av | N/Av | N/Av |
| Ethanol | N/Av | 1000 ppm | 1000 ppm ; 1900 mg/m ³ | N/Av |
| Rosin | N/Av | N/Av | N/Av | N/Av |

Ventilation and engineering measures

- : Do not use in closed or confined space. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : Not required under normal conditions of handling.

Skin protection

- : Solvent-resistant gloves. Advice should be sought from glove suppliers.

Eye / face protection

- : Chemical splash goggles are recommended.

Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Remove and wash contaminated clothing before re-use.

General hygiene considerations

- : Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|--|---|
| Physical state : Liquid. | Appearance : Off white |
| Odour : Sweet odour. | Odour threshold : N/Av |
| pH : 6.5 - 7.5 | |
| Boiling point : N/Av | Specific gravity : N/Av |
| Melting/Freezing point : N/Av | Coefficient of water/oil distribution : N/Av |
| Vapour pressure (mmHg @ 20° C / 68° F) : N/Av | Solubility in water : N/Av |
| Vapour density (Air = 1) : N/Av | Evaporation rate (n-Butyl acetate = 1) : Slow. |
| Volatile organic Compounds (VOC's) : N/Av | Volatiles (% by weight) : N/Av |
| Flash point : N/Av | |

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| | | | |
|--|--------|--|--------|
| Flash point Method | : N/Av | Auto-ignition temperature | : N/Av |
| Lower flammable limit (% by vol.) | : N/Av | Upper flammable limit (% by vol.) | : N/Av |
| Flame Projection Length | : N/Av | Flashback observed | : N/Av |
| Viscosity | : N/Av | | |
| Absolute pressure of container | : N/Av | | |

Section 10: Stability And Reactivity

Stability and reactivity : Stable under recommended storage conditions.
Hazardous polymerization : Hazardous polymerisation does not occur.
Conditions to avoid : Keep out of direct sunlight. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not use in areas without adequate ventilation.

Materials To Avoid And Incompatibility

: See Section 7 (Handling and Storage) for further details.

Hazardous decomposition products

: Refer to Section 5 for additional 'Hazardous combustion products'.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs : Eyes, skin and digestive system.
Routes of exposure : *Inhalation:* NO *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES
Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

| <u>Ingredients</u> | LC₅₀(4hr) | LD₅₀ | |
|--------------------|-----------------------------|------------------------|-------------------------|
| | <u>inh, rat</u> | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Sodium fluoride | N/Av | 52 mg/kg | 175 mg/kg |
| Ethanol | >32380 ppm | 7060 mg/kg | >15800 mg/kg |
| Rosin | N/Av | 3 mg/kg | N/Av |

Carcinogenic status : Not known to be carcinogenic. Note that this product contains ethanol, a confirmed animal carcinogen (A3) by the ACGIH and human carcinogen (Group 1) by the IARC; however, this is only applicable when the chemical is present in alcoholic beverages.
Reproductive effects : Not expected to cause reproductive effects. Reproductive effects reported on human embryo and fetus with exposure to ethanol.
Teratogenicity : Not expected to be a teratogen.
Mutagenicity : Not expected to be mutagenic in humans. Contains ethanol, suspected of being a mutagen, based on animal data.
Epidemiology : Not available.
Sensitization to material : May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
Synergistic materials : N/Av
Irritancy : May cause eye and skin irritation. May cause gastrointestinal irritation.
other important hazards : None known.
Conditions aggravated by overexposure : Pre-existing skin, eye and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

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- Ecotoxicity** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
The acute toxicity of sodium fluoride is:
Toxicity to fish: LC50/96h/rainbow trout = 51 - 108 mg/L
Toxicity to invertebrates EC50/48h/Daphnia magna (Water flea) = 97 - 153 mg/L
Toxicity to algae EC50/96h/Skeletonema costatum = 122 mg/L
- Mobility** : No data is available on the product itself.
- Persistence** : The active ingredient is readily biodegradable.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7.
- Methods of Disposal** : Improper disposal can cause damage to the environment. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- RCRA** : It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

| Regulatory Information | UN Number | Shipping Name | Class | Packing Group | Label |
|---|-----------|----------------|---------------|---------------|---|
| TDG | None. | Not regulated. | Not regulated | none |  |
| TDG Additional information | None. | | | | |
| 49CFR/DOT | None. | Not regulated. | Not regulated | none |  |
| 49CFR/DOT Additional information | None. | | | | |

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Acute Health Hazard, Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

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California Proposition 65: This product does contain ethyl alcohol, which is known to the State of California to cause developmental harm; however, this is only applicable when the chemical is present in alcoholic beverages.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: Sodium Fluoride (MA, NJ, CA, PA, RI), Rosin (MN); Ethanol (MA, MN, NJ, CA, PA, RI).

International Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

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

SECTION 16 - OTHER INFORMATION

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious
Health: 1 *Flammability:* 1 *Reactivity:* 0

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CNS: Central Nervous System
DOT: Department of Transportation
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

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- References**
- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2012
 - 2. International Agency for Research on Cancer Monographs, searched 2012
 - 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases (Chempendium, HSDB and RTECs). (2012)
 - 4. Material Safety Data Sheets from manufacturer.
 - 5. US EPA Title III List of Lists (July 2011)
 - 6. California Proposition 65 List (16 March 2012)

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| <p><u>Prepared for:</u> A.R. Medicom Inc 1200 55th Avenue Montreal, QC, Canada, H8T 3J8 Telephone: (514) 636-6262 Direct all enquiries to: A.R. Medicom Inc</p> |  |
| <p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p> |  |

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