

RUSFRE®RUSFRE
604 McGEACHIE DRIVE
MILTON, ONTARIO, L9T 3Y5**PRODUCT: 1020F-1, 1020F-2.5, 1020F-16, 1020F-55 UNDERCOATING****SECTION 01: IDENTIFICATION**

Initial supplier identifier..... RUSFRE
604 McGeachie Drive
Milton
Ontario
L9T 3Y5

Product identifier..... 1020F-1, 1020F-2.5, 1020F-16, 1020F-55 UNDERCOATING

Recommended use and restrictions on .. Rust proofing. Automotive.
use

Chemical family..... Mixture.

NFPA rating..... Health: 3 Fire: 2 Reactivity: 0.

HMIS..... H: 3 F: 2 R: 0.

24 hour emergency number..... For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC);
IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.
** For medical emergencies contact your local poison control centre **.

SECTION 02: HAZARD IDENTIFICATION

Signal Word..... DANGER.

Hazard Classification..... Flammable Liquid 3. Acute Toxicity (Oral) — Category 4. Aspiration Toxicity 1. Skin Irritation — Category 2. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). (narcotic effects).

Hazard Description..... H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes serious skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this product. P271 Use only outdoors or in a well ventilated area. P280 Wear protective gloves and eye protection.

Response P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P330 Rinse mouth. P331 Do NOT induce vomiting. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until medical help arrives. P337 + P313 - If eye irritation persists get medical attention. P302 + P352 - If on skin: wash with plenty of water. P332 + P313 - If skin irritation occurs get medical attention or advice. P362 + P364 - Take off contaminated clothing and wash before reuse. P312 Call a POISON CENTER/doctor if you feel unwell. P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.

Storage.....

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

Note This product mixture has been classified based on its ingredients.

PRODUCT: 1020F-1, 1020F-2.5, 1020F-16, 1020F-55 UNDERCOATING**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

| CHEMICAL NAME AND SYNONYMS | CAS # | WT. % |
|----------------------------|-------|-------|
|----------------------------|-------|-------|

| | | |
|--|------------|-------|
| Asphalt | 8052-42-4 | 65-85 |
| Mineral Spirits (Stoddard solvent) | 8052-41-3 | 10-30 |
| Calcium Carbonate | 1317-65-3 | 5-10 |
| Sulfonic acids, petroleum, calcium salts | 61789-86-4 | 1-5 |

<<The actual concentration(s) withheld as a trade secret>> .

SECTION 04: FIRST-AID MEASURES

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| Eye contact..... | In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Obtain medical attention. |
| Skin contact..... | Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. If irritation persists, seek medical attention. |
| Inhalation..... | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention. |
| Ingestion..... | If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, whether acute or delayed | Harmful if swallowed, in contact with skin or if inhaled. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Causes skin and eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. |
| Additional information..... | Treat victims symptomatically. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet. |

SECTION 05: FIRE-FIGHTING MEASURES

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| Suitable and unsuitable extinguishing media | "Alcohol" foam, CO ₂ , dry chemical. Do not use water in a jet. In cases of larger fires, water spray should be used. |
| Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products | Oxides of carbon (CO, CO ₂). Hydrocarbon fumes and smoke. |
| Special protective equipment and precautions for fire-fighters | Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Solvent vapours may be heavier than air and may build up and travel along the ground to an ignition source, which may result in a flash back to the source of the vapours. Keep run-off water from entering sewers and other waterways. Dike for water control. |

SECTION 06: ACCIDENTAL RELEASE MEASURES

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| Methods and materials for containment and cleaning up | Keep away from heat, sparks and flames. Evacuate all non-essential personnel. Ventilate. Eliminate all sources of ignition. Avoid all personal contact. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with an inert dry material and place in an appropriate waste container. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations. |
| Leak/spill..... | |
| Personal precautions, protective equipment and emergency procedures | Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways. Use non-sparking tools and equipment to pick up the spilled material. |

SECTION 07: HANDLING AND STORAGE

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| Precautions for safe handling..... | Keep away from heat, sparks, and open flame. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in |
|------------------------------------|---|

PRODUCT: 1020F-1, 1020F-2.5, 1020F-16, 1020F-55 UNDERCOATING**SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling..... which product is packed. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks, and open flames. Store away from oxidizing and reducing materials. Store away from sunlight. Keep container closed when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| INGREDIENTS | TWA | ACGIH TLV STEL | OSHA PEL STEL | REL | NIOSH |
|--|---|-------------------|-------------------------------|-----------------|--------------------|
| Asphalt | 0.5 mg/cu m (Inhalable fraction) 8hr | Not established | Not established | Not established | 5 mg/m3 15 minutes |
| Mineral Spirits (Stoddard solvent) | 100 ppm | Not established | 100ppm, 525 mg/m ³ | Not established | Not established |
| | CA ON: 100 ppm (TWA) | | | | |
| Calcium Carbonate | Not established | Not established | 5 mg/m3 | Not established | 5 mg/m3 |
| Sulfonic acids, petroleum, calcium salts | Not available | | Not available | | Not available |

Respiratory/type..... Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.

Eye/type..... Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.

Gloves/ type..... Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed.

Clothing/type..... Wear adequate protective clothes.

Footwear/type..... Safety boots per local regulations.

Other/type..... Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Appropriate engineering controls..... Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. Explosion-proof exhaust ventilation.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Liquid.

Colour..... Black.

Odour..... Mild. Hydrocarbon odour.

Odour threshold (ppm)..... No data.

pH..... No data.

Melting / Freezing point (deg C)..... Not available.

Initial boiling point / boiling range (deg C). 157 - 287 °C.

Flash point (deg C), method..... 40.5. (Closed Cup).

Evaporation rate..... No data.

Flammability (solids and gases)..... Not applicable.

Upper flammable limit (% vol)..... No data.

Lower flammable limit (% vol)..... No data.

Vapour pressure (mm Hg)..... 2mmHg (tor) @ 20°C (68°F).

Vapour density (air=1)..... 4.9.

Relative Density (Specific Gravity)..... 1.01 - 1.08.

Pounds / USG..... 8.5 - 9. lbs/USG.

Solubility..... No data.

Partition coefficient — n-octanol/water..... Not available.

Auto ignition temperature (deg C)..... 232°C (450°F).

Decomposition temperature..... Not available.

Viscosity..... 6000 - 7000 cPs.

VOC (less water)..... 2.73 lb/USG .

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| Reactivity | Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents. |
| Chemical stability..... | Stable at normal temperatures and pressures. |
| Possibility of hazardous reactions..... | Hazardous polymerization will not occur. |
| Conditions to avoid, including static discharge, shock or vibration | Keep away from heat. |
| Incompatible materials..... | Strong oxidizing agents. |
| Hazardous decomposition products..... | By fire: Dense black smoke. Oxides of carbon (CO,CO2). Hydrocarbons. |

SECTION 11: TOXICOLOGICAL INFORMATION

| INGREDIENTS | LC50 | LD50 |
|--|--|--|
| Asphalt | >94.4 mg/cu m 4.5hr rat | >5000 mg/kg rat oral >2000 mg/kg rabbit dermal |
| Mineral Spirits (Stoddard solvent) | 5500 ppm (4 hrs) | 5000 mg/kg (oral, rat) |
| Calcium Carbonate | Not available | 6450 mg/kg rat oral |
| Sulfonic acids, petroleum, calcium salts | Not available | > 20gm/kg (oral, rat) |
| Route of exposure..... | Eye contact. Skin contact. Inhalation. | |
| Effects of acute exposure..... | Hazardous in contact with skin, by ingestion, and by inhalation. Irritating to eyes, skin and respiratory system. Excessive vapours may cause nasal and respiratory tract irritation. May cause central nervous system effects such as headache, nausea, vomiting and weakness. | |
| Effects of chronic exposure..... | Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Chronic exposure to organic solvents may cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. | |
| Specific Target Organ Toxicity | May cause drowsiness or dizziness. May cause respiratory irritation. | |
| Carcinogenicity of material..... | Calcium carbonate may contain at least 0.1% of a carcinogen (crystalline silica). Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen. | |
| Reproductive effects..... | No data on reproductive effects were found in the literature sources consulted. | |

SECTION 12: ECOLOGICAL INFORMATION

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| Environmental..... | Do not allow to enter waters, waste water or soil. |
| Persistence and degradability..... | Not available. |

SECTION 13: DISPOSAL CONSIDERATIONS

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| Information on safe handling for disposal and methods of disposal, including any contaminated packaging | Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations. Do not heat or cut empty containers with electric or gas torch. |
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SECTION 14: TRANSPORT INFORMATION

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| TDG Classification..... | UN1999 - Tars, Liquid - Class 3 - Packing Group III - This product meets limited quantity exemption when shipped in containers less than 5 Litres. |
| DOT Classification (Road)..... | UN1999 - Tars, Liquid - Class 3 - Packing Group III - Ltd Qty (5 Liters/1.3 Gallons). 49CFR173.150 provides an exception to the requirements of subsection 172.101 flammable liquids in Packing Group III and combustible liquids, inner packagings not over 5.0 L (1.3 gallons) net capacity each, packed in a strong outer packaging. Otherwise this product is classified as UN1999 - Tars, Liquid - Class 3 - Packing Group III . |
| IATA Classification (Air)..... | UN1999 - Tars, liquid - Class 3 - Packing Group III . Limited Quantity. Do not ship by air without checking appropriate IATA regulations. |
| IMDG Classification (Marine)..... | UN1999 - Tars, Liquid - Class 3 - Packing Group III - EmS: F-E S-E. Limited Quantity. Check IMDG regulations for limited quantity exemptions. |
| Marine Pollutant..... | No. |
| Proof of Classification..... | In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. . |
| Note..... | This product is a flammable liquid, Class 3, Packing Group III material with a flash point >37.8C and is exempt from the application of these regulations in non-bulk (< 450L) packaging as per TDG 1.33. |

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SECTION 15: REGULATORY INFORMATION

CEPA status..... On Domestic Substances List (DSL).
 TSCA inventory status..... All components are listed.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous None.
 substances
 Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... None above De minimus % limit.
 EPA hazardous air pollutants (HAPS) None.
 40CFR63
 California Proposition 65..... ***** ! WARNING:** This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer and birth defects or other reproductive harm. . (Silica, crystalline (airborne particles of respirable size). Asphalt & Asphalt fumes may contain detectable amounts of chemicals known to the state of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
 Telephone number:..... (800) 387-7981.
 Disclaimer:..... **DISCLAIMER:** All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

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 data sheet