

RUSFRE
604 McGEACHIE DRIVE
MILTON; ONTARIO; L9T 3Y5

PRODUCT: 1020F-1, 1020F-2.5, 1020F-16, 1020F-55 UNDERCOATING**Section 01: Chemical product and company identification**

Product name..... 1020F-1, 1020F-2.5, 1020F-16, 1020F-55 UNDERCOATING
 Manufactured for..... RUSFRE
 604 McGeachie Drive
 Milton
 Ontario
 L9T 3Y5
 24 hour emergency number..... In Canada call Canutec (613) 996-6666 - In the United States call Chemtrec (800) 424-9300.
 Material use..... Rust proofing.
 Chemical family..... Mixture.
 Preparation date..... December 20, 2013.
 Hazard rate
 NFPA rating..... Health: 2 Fire: 2 Reactivity: 0.
 HMIS..... H: 2* F: 2 R: 0.

Section 02: Hazards identification

Signal Word..... WARNING.
 Hazard Classification..... Acute Toxicity 4. Eye Irritant 2. Skin Irritant 2. Carcinogen 2. Reproductive 2. Mutagen 2. STOT RE 2. Flammable Liquid 3.
 Hazard Description..... H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H320 Causes eye irritation. H361 This product contains ingredients that are suspected of damaging fertility or the unborn child. H373 May cause damage to the liver and kidneys through prolonged or repeated contact.
 Precautionary Statements..... P202 Do not handle this product until all safety instructions have been read and understood. 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. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves and eye protection.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	Wt. %
ASPHALT	8052-42-4	60-100
MINERAL SPIRITS	8052-41-3	10-30
METHANOL	67-56-1	0.1-1.0
BENZENE	71-43-2	<0.1

Section 04: First aid measures

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..... Do not induce vomiting. If ingestion is suspected, contact physician or poison control center immediately. 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.

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Additional information..... Treat victims symptomatically. The main hazard from ingestion is aspiration of the liquid into the lungs. 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

Extinguishing media..... "Alcohol" foam, CO₂, dry chemical. In cases of larger fires, water spray should be used.
 Hazardous combustion products..... Oxides of carbon (CO,CO₂).
 Special fire fighting procedures..... 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. Keep run-off water from entering sewers and other waterways. Dike for water control.

Section 06: Accidental release measures

Leak/spill..... Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. 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. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%).

Section 07: Handling and storage

Handling procedures..... Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid breathing vapours or mist. Ground handling equipment. Handle and open container with care. Employees should wash hands and face before eating or drinking. Keep away from heat, sparks, and open flame.
 Storage needs..... Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight.

Section 08: Exposure controls / personal protection

Protective equipment
 Eye/type..... Liquid chemical goggles.
 Respiratory/type..... Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
 Gloves/ type..... Chemical resistant gloves.
 Clothing/type..... Wear adequate protective clothes.
 Footwear/type..... Safety boots per local regulations.
 Other/type..... Emergency showers and eye wash stations should be available.
 Ventilation requirements..... Local exhaust at points of emission.
 Exposure limits

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
ASPHALT	0.5 mg/m ³	No data	No data	No data		5 mg/m ³ /15 minutes
MINERAL SPIRITS	525 mg/m ³	No data	No data	No data		No data
METHANOL	200 ppm	250 ppm skin	200 ppm	No data		200 ppm / STEL 250 ppm

BENZENE

Section 09: Physical and chemical properties

Physical state..... Liquid.
 Colour..... Black.
 Odour..... Aromatic petroleum odour.
 Odour threshold (ppm)..... No data.
 Vapour pressure (mm Hg)..... No data.
 Vapour density (air=1)..... 4.7.
 pH..... No data.
 Specific gravity..... 8.21 lb/USG - 0.9852.
 Freezing point (deg C)..... No data.
 Solubility..... No data.

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Boiling point (deg C).....	154-196.
Evaporation rate.....	0.12.
Flash point (deg C), method.....	38. Tag Closed Cup.
Auto ignition temperature (deg C).....	210.
Upper flammable limit (% vol).....	5.0.
Lower flammable limit (% vol).....	0.8.
Coefficient of water/oil distribution.....	No data.
% volatile by volume.....	2.87 lb/USG.
VOC.....	No data.
Viscosity	

Section 10: Stability and reactivity

Stability.....	Stable at normal temperatures and pressures.
Reactivity conditions.....	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
Incompatibility.....	Keep away from heat. Incompatible with strong oxidizers.
Hazardous products of decomposition.....	By fire: Dense black smoke. Oxides of carbon (CO,CO2).
Hazardous polymerization.....	Hazardous polymerization will not occur.

Section 11: Toxicological information

Route of entry	Eye contact. Skin contact. Inhalation.
Effects of acute exposure.....	Hazardous in contact with skin, by ingestion, and by inhalation. Excessive vapours may cause nasal and respiratory tract irritation. Irritating to eyes, skin and respiratory system. 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. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal . Chronic exposure to organic solvents may cause permanent brain and nervous system damage. Possible damage to liver and kidneys.
Carcinogenicity of material.....	Asphalt may contain trace amounts of benzene, a chemical known to cause cancer.
Reproductive effects.....	Methanol is teratogenic and embryotoxic in animals.
Toxicological Data	

Ingredients	LC50-inh, rat	LD50-Oral,rat
ASPHALT	No data	No data
MINERAL SPIRITS	No data	No data
METHANOL	64,000 ppm 4 hours rat	5,628 mg/kg rat oral 15,800 mg/kg rabbit dermal
BENZENE	TCLo 210 ppm HUMAN INHALATION	3400 mg/kg RAT ORAL

Section 12: Ecological information

Environmental.....	Do not allow to enter waters, waste water or soil.
Biodegradability.....	No data.

Section 13: Disposal considerations

Waste disposal.....	This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations.
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Section 14: Transport information

TDG Classification (Road).....	Asphalt (Tars, Liquid) - UN1999 - Class 3 - Packing Group III - This product meets limited quantity exemption when shipped in containers less than 5 Litres.
IATA Classification (Air).....	Asphalt (Tars, Liquid) - UN1999 - Class 3 - Packing Group III .
IMDG Classification (Marine).....	Asphalt (Tars, Liquid) - UN1999 - Class 3 - Packing Group III - EmS: F-E S-E.
Marine Pollutant.....	No.

Section 15: Regulatory information

WHMIS classification.....	B3, D2A, D2B.
CEPA status.....	On Domestic Substances List (DSL).
OSHA.....	This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III	
Section 302 - extremely hazardous substances	None.

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Section 15: Regulatory information

Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Methanol.
EPA hazardous air pollutants (HAPS) 40CFR63	Methanol.
TSCA inventory status.....	All components are listed.
California Proposition 65.....	This product contains Methanol known to the State of California to cause developmental reproductive toxicity.

Section 16: Other information

Prepared by:	Regulatory Affairs.
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.