

**RUSFRE®**RUSFRE  
604 McGEACHIE DRIVE  
MILTON, ONTARIO, L9T 3Y5**PRODUCT: RF 1004-120B TRUCK BED COATING 3.5L BLACK W/ 1004-30PAB & 1004-30PB****SECTION 01: IDENTIFICATION**

Product identifier..... RF 1004-120B TRUCK BED COATING 3.5L BLACK W/ 1004-30PAB & 1004-30PB  
 Other means of identification  
 Chemical family..... Acrylic coating.  
 Recommended use and restrictions on .. Paints.  
 use  
 Initial supplier identifier..... RUSFRE  
 604 McGeachie Drive  
 Milton  
 Ontario  
 L9T 3Y5  
 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 \*\*.

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 NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.  
 HMIS..... H: 2 F: 4 R: 0.

**SECTION 02: HAZARD IDENTIFICATION**

Hazard Classification..... Flammable Liquid 2. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system). Germ Cell Mutagenicity 2. Carcinogenicity — Category 1. Reproductive Toxicity — Category 1.

Signal Word..... DANGER.

Hazard Description..... H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H350 This product contains ingredients that may cause cancer. H360 May damage fertility or the unborn child.

Prevention..... P201 Obtain special instructions before use. 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. 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.

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. P302 + P352 - If on skin: wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.

Storage..... P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.

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: RF 1004-120B TRUCK BED COATING 3.5L BLACK W/ 1004-30PAB & 1004-30PB**

**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetone	67-64-1	7-13
4-Chlorobenzotrifluoride	98-56-6	5-10
tert-Butyl acetate	540-88-5	5-10
n-Butyl Acetate	123-86-4	5-10
Solvent Naphtha, Light Aromatics	64742-95-6	3-7
Xylene	1330-20-7	1-5
Carbon Black	1333-86-4	0.5-1.5
Dibutyltin Bis (Acetylacetonate)	22673-19-4	0.1-1
Ethylbenzene	100-41-4	0.1-1
Bis (1,2,2,6,6- Pentamethyl-4- Piperidyl) Sebacate	41556-26-7	0.1-1
Octadecanamide, N,N'-1,2-ethanediybis[12-hydroxy-	123-26-2	0.1-1
Crystalline Silica	14808-60-7	0.1-1

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

**SECTION 04: FIRST-AID MEASURES**

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.
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.
Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention.
Most important symptoms and effects, ..... whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Can cause skin sensitization. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Can irritate mucous membranes of the respiratory tract. Causes damage to organs through prolonged or repeated exposure. Suspected of causing genetic defects. This product contains ingredients that may cause cancer. Suspected of damaging fertility or the unborn child.
Additional information.....	Treat victims symptomatically. 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**

Suitable and unsuitable extinguishing media	"Alcohol" foam, CO <sub>2</sub> , dry chemical. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO <sub>2</sub> ). Hydrocarbon fumes and smoke. Under hot acidic conditions: Isobutylene. Acetic acid.
Special protective equipment and precautions for fire-fighters	Acetone is a highly flammable liquid. It is easily ignited in the presence of heat, an ignition source such as a naked flame or a spark (including electrostatic discharge). Aqueous solutions of acetone can also ignite. Acetone vapors are heavier than air and can travel a long distance to an ignition source and cause flashback. Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. 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. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

**PRODUCT: RF 1004-120B TRUCK BED COATING 3.5L BLACK W/ 1004-30PAB & 1004-30PB**

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures .....	Extremely flammable liquid. No action shall be taken involving any personal risk or without suitable training. Take precautions against static discharge. Use non-sparking tools and equipment to pick up the spilled material. Equipment should be grounded. 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.
Methods and materials for containment and cleaning up	
Leak/spill.....	FLAMMABLE. Ventilate. Eliminate all sources of ignition. Avoid all personal contact. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Pick up waste material and place in an appropriate container for disposal. 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.

**SECTION 07: HANDLING AND STORAGE**

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 which product is packed. Avoid breathing vapours or mist. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. 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. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight. Attacks some types of rubber, plastics and coatings.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Acetone	250 ppm TLV CA ON: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established	250 ppm	
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established	Not established
tert-Butyl acetate	200 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	Not established	200 ppm	Not established	200 ppm	
n-Butyl Acetate	50 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm	
Solvent Naphtha, Light Aromatics	Not established	Not established	500 ppm (2000 mg/m3) TWA	Not established	350 mg/m3 TWA	
Xylene	50 ppm CA ON: 100ppm (TWA); 150ppm (STEL)	150 ppm	100 ppm TWA	Not established	Not established	
Carbon Black	3 mg/m3 CA ON: 3 mg/m3 (Inhalable) TWA	Not established	3.5 mg/m3	Not established	3.5 mg/m3	
Dibutyltin Bis (Acetylacetonate)	Not established	Not established	Not established	Not established	Not established	Not established
Ethylbenzene	100 ppm CA ON: 20ppm (TWA)	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm	
Bis (1,2,2,6,6-Pentamethyl-4- Piperidyl) Sebacate	Not established	Not established	Not established	Not established	Not established	Not established
Octadecanamide, N,N'-1,2-ethanediybis[12-hydroxy-	Not established		Not established		Not established	Not established
Crystalline Silica	0.025 mg/m3	Not established	0.1 mg/m3 TWA	Not established	0.05 mg/m3	

**PRODUCT: RF 1004-120B TRUCK BED COATING 3.5L BLACK W/ 1004-30PAB & 1004-30PB**

### SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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CA ON: 0.025 mg/m3 Respirable

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.
Personal Protective Equipment	
Eye/type.....	Chemical safety goggles. Chemical safety goggles and full faceshield if 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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Contact glove supplier for recommendations.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
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.

### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Liquid.
Colour.....	Black.
Odour.....	Characteristic odour.
Odour threshold (ppm).....	Not available.
pH.....	Not applicable.
Melting / Freezing point (deg C).....	< 0 °C.
Initial boiling point / boiling range (deg C).....	> 56 °C. (acetone).
Flash point (deg C), method.....	-18°C. (estimate; lowest flash point ingredient).
Evaporation rate.....	Not available.
Flammability (solids and gases).....	Not applicable. Flammable liquid.
Upper flammable limit (% vol).....	12.6.
Lower flammable limit (% vol).....	0.7.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	>1.
Relative Density (Specific Gravity).....	1.199.
Pounds / USG.....	10.01.
Solubility.....	Not available.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	>200. (estimate).
Decomposition temperature.....	Not available.
Viscosity.....	16000 cPs. Spindle #6 @20 rpm.
VOC (less water).....	1.56 lbs/USG; 186.9 g/L.

### SECTION 10: STABILITY AND REACTIVITY

Reactivity .....	Product is stable; hazardous polymerization will not occur.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Will not occur under normal temperature and pressure.
Conditions to avoid, including static discharge, shock or vibration .....	Avoid heat, spark, open flames. Electrostatic charge.
Incompatible materials.....	Strong oxidizing agents. Reducing agents. Ammonia. Aldehydes. Acids. Alkalies. Nitrates. Plastics. Acetone may ignite or react violently with strong oxidizing agents, such as chromic acid, chromium trioxide, chromyl chloride, hot nitric acid, potassium permanganate (in an alkaline medium), or peroxides.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

**PRODUCT: RF 1004-120B TRUCK BED COATING 3.5L BLACK W/ 1004-30PAB & 1004-30PB**

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Acetone	50,100 mg/m <sup>3</sup> 8 hours, rat	5,800 mg/kg (rat oral)
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg (rat oral); >2,700 mg/kg (rabbit dermal)
tert-Butyl acetate	>2,230 mg/m <sup>3</sup> 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
n-Butyl Acetate	>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)
Solvent Naphtha, Light Aromatics	5.2 mg/L 4 hours, rat 3400 ppm 4 hours, rat	>5,000 mg/kg rat oral >2,000 mg/kg rabbit dermal
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Carbon Black	Not available	>10,000 mg/kg oral rat 3,000 mg/kg dermal rabbit
Dibutyltin Bis (Acetylacetonate)	Not Available	1864 mg/kg (oral, rat)
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
Bis (1,2,2,6,6- Pentamethyl-4- Piperidyl) Sebacate	Not Available	2369-3920 mg/kg (oral rat), >2000 mg/kg (dermal rabbit)
Octadecanamide, N,N'-1,2-ethanediybis[12-hydroxy-	Not determined	Not determined
Crystalline Silica	Not available	>22,500 mg/kg oral rat

Route of exposure..... Eye contact. Skin contact. Inhalation.

Symptoms related to the physical, chemical and toxicological characteristics

Effects of acute exposure..... The aromatic hydrocarbon solvents in this product can be irritating to the eyes, nose and throat. In high concentration, they may cause central nervous system depression and narcosis characterized by nausea, lightheadedness and dizziness from overexposure by inhalation. Can cause moderate skin irritation, defatting and dermatitis.

Inhalation (acute)..... Solvent vapours may be irritating to the eyes, nose and throat, resulting in redness, burning and itching of eyes, dryness of the throat and tightness in the chest. Breathing of high vapour concentrations may cause anesthetic effects and serious health effects.

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.

Inhalation (chronic)..... Chronic exposure to organic solvent vapors have been associated with various neurotoxic effects including permanent brain and/or nervous system damage, kidney, liver, blood damage and reproductive effects among women. Symptoms may include nausea, vomiting, abdominal pain, headache, impaired memory, loss of coordination, insomnia and breathing difficulties. Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, nausea and asphyxiation.

Ingestion..... May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

Sensitizing capability of material..... May cause sensitization by skin contact. Ethylbenzene is a possible skin sensitizer.

Carcinogenicity of material..... IARC has classified Carbon Black as "Group 2B", possibly carcinogenic to humans, based on laboratory animal inhalation studies. Ethylbenzene is classified as an A3 known animal carcinogen. Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen.

Reproductive effects..... High level exposure to Xylene in some animal studies have been reported to cause health effects on the developing embryo/fetus. The relevance of this to humans is not known. Dibutyltin bis(acetylacetonate):. May cause adverse effects.

Mutagenicity..... Dibutyltin Bis (Acetylacetonate):. Suspected of causing genetic defects.

Specific Target Organ Toxicity ..... May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure .

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity..... Product data not available.  
Persistence and degradability..... Product data not available.  
Bioaccumulative potential..... Product data not available.  
Mobility in soil..... Product data not available.  
Other adverse effects..... Do not allow to enter waters, waste water or soil.

**PRODUCT: RF 1004-120B TRUCK BED COATING 3.5L BLACK W/ 1004-30PAB & 1004-30PB**

### SECTION 13: DISPOSAL CONSIDERATIONS

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. Empty containers must be handled with care due to product residue.

### SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II - This product meets the limited quantity exemption when packaged in containers less than 5 Litres.  
 DOT Classification (Road)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II . Ltd Qty (1 Liter/0.26 Gallons). Refer to 49CFR 172.101 for additional non-bulk packaging requirements.  
 IATA Classification (Air)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II . Limited Quantity. Do not ship by air without checking appropriate IATA regulations.  
 IMDG Classification (Marine)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. Check IMDG regulations for limited quantity exemptions.  
 Marine Pollutant..... Potential marine pollutant.  
 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. .

### SECTION 15: REGULATORY INFORMATION

CEPA status..... Contains ingredient(s) not on the DSL.  
 TSCA inventory status..... All components are either listed or exempt from the TSCA. .  
 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..... Ethylbenzene. Xylene.  
 EPA hazardous air pollutants (HAPS) ..... Ethylbenzene. Toluene. Xylene.  
 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 birth defects or other reproductive harm. (Toluene). \*\*\* ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Carbon black - airborne, unbound particles of respirable size). (Ethyl benzene). (Silica, crystalline (airborne particles of respirable size). For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16: OTHER INFORMATION

Prepared by: ..... REGULATORY AFFAIRS. Trivalent Data Systems Ltd. [www.trivalent.com](http://www.trivalent.com).  
 Telephone number:..... (800) 387-7981.  
 Date of the latest revision of the safety .. 2021-01-29  
 data sheet

**RUSFRE®**RUSFRE  
604 McGEACHIE DRIVE  
MILTON, ONTARIO, L9T 3Y5**PRODUCT: RF 1004-30PB TRUCK BED PROTECTIVE COATING PART B****SECTION 01: IDENTIFICATION**

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

Product identifier..... RF 1004-30PB TRUCK BED PROTECTIVE COATING PART B

Recommended use and restrictions on .. Coatings.  
use

Chemical family..... Mixture.

NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.

HMIS..... H: 2\* F: 4 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 2. Skin Sensitizer — Category 1. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system).

Hazard Description..... H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. 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. 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.

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 . P302 + P352 - If on skin: wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.

Storage..... P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.

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.

**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
tert-Butyl acetate	540-88-5	40-70
Homopolymer of HDI	28182-81-2	15-40

&lt;&lt;The actual concentration(s) withheld as a trade secret&gt;&gt; .

**PRODUCT: RF 1004-30PB TRUCK BED PROTECTIVE COATING PART B****SECTION 04: FIRST-AID MEASURES**

Skin contact.....	Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Wash clothing before reuse. If irritation persists, seek medical attention.
Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so.
Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	Immediately call a physician. Drink plenty of water. Never give anything by mouth to an unconscious person. This product could cause chemical pneumonitis through aspiration of the product into the lungs following accidental ingestion. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs.
Most important symptoms and effects, ..... whether acute or delayed	May cause eye irritation. May cause mild skin irritation. Can cause skin sensitization. Can cause central nervous system depression. High vapour concentrations may be irritating to the respiratory tract. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.
Additional information.....	In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate. In all cases, if irritation persists seek medical attention.

**SECTION 05: FIRE-FIGHTING MEASURES**

Suitable and unsuitable extinguishing ..... media	Carbon dioxide, dry chemical, foam. In cases of larger fires, water spray should be used. Do not use water in a jet.
Specific hazards arising from the ..... hazardous product, such as the nature of any hazardous combustion products	Toxic vapours may be evolved upon exposure to heat or open flame. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO <sub>2</sub> ). Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Isocyanic acid. Under hot acidic conditions: Isobutylene. Acetic acid.
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. Move containers from fire area if this can be done without risk. Keep run-off water from entering sewers and other waterways. Dike for water control.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective ..... equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. 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. Take precautions against static discharge. Use non-sparking tools and equipment to pick up the spilled material.
Methods and materials for containment and cleaning up	
Leak/spill.....	Evacuate all non-essential personnel. Avoid breathing vapours and skin contact. Remove sources of ignition if combustible or flammable vapours may be present and ventilate area. Dike area to prevent spreading. Prevent runoff into drains, sewers, and other waterways. Absorb residual material with sand, or other absorbent 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%). Allow to stand for 72 hours. Decontaminate floor with decontaminate solution letting stand for at least 15 minutes.

**SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling.....	This product must be manipulated by qualified personnel. 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 which product is packed. Avoid skin and eye contact. Avoid prolonged or repeated skin contact. Avoid breathing vapours or mist. Use adequate ventilation. Handle and open container with care. Employees should wash hands and face before eating or drinking. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation.
Conditions for safe storage, including any incompatibilities	Store in tightly closed containers to prevent moisture contamination. Attacks some types of rubber, plastics and coatings. Avoid: Water, Amines, Strong bases, Alcohols, Copper alloys. Do not store above 50 deg C.



**PRODUCT: RF 1004-30PB TRUCK BED PROTECTIVE COATING PART B****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
tert-Butyl acetate	200 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	Not established	200 ppm	Not established	200 ppm
Homopolymer of HDI	5 mg/m3 Supplier: 0.5 mg/m3 (TWA)	Not established	5 mg/m3	Not established	5 mg/m3
Appropriate engineering controls.....	Local exhaust at points of emission. Ventilation system must be designed vapor and explosion proof for handling solvent vapors.				
Personal Protective Equipment					
Gloves/ type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. The following gloves are recommended :. Butyl rubber gloves. Contact glove supplier for recommendations.				
Eye/type.....	Splash proof chemical goggles or 8" face shield. Contact lenses should not be worn when working with this chemical.				
Respiratory/type.....	Avoid breathing vapours. Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn. For operations where inhalation exposure can occur, a NIOSH-approved respirator may be necessary. Use air-purifying particulate / organic vapour cartridge respirator.				
Clothing/type.....	Wear adequate protective clothes.				
Footwear/type.....	Safety boots per local regulations.				
Other/type.....	Eyewash fountain. Emergency shower should be in close proximity. Employees should wash their hands and face before eating, drinking, or using tobacco products.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	Light yellow.
Odour.....	Slight. Camphor-like.
Odour threshold (ppm).....	Not available.
pH.....	Not applicable.
Melting / Freezing point (deg C).....	< -20.
Initial boiling point / boiling range (deg C).....	> 98 °C.
Flash point (deg C), method.....	4 °C. (estimate; lowest flash point ingredient).
Evaporation rate.....	Not available.
Flammability (solids and gases).....	Not applicable. Flammable liquid.
Upper flammable limit (% vol).....	6.9.
Lower flammable limit (% vol).....	1.2.
Vapour pressure (mm Hg).....	< 41.5 mmHg.
Vapour density (air=1).....	Not available.
Relative Density (Specific Gravity).....	0.952.
Pounds / USG.....	7.95.
Solubility.....	Insoluble.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	>460°C.
Decomposition temperature.....	Not available.
Viscosity.....	14 sec Zahn #2.
% Volatile by volume.....	0.0.
VOC (less water).....	0.0.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity .....	Contact with moisture, other materials that react with isocyanates, or temperatures above 177 C, may cause polymerization.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Contact with moisture or other materials that react with isocyanates may cause polymerization. Temperatures above 177 C.
Conditions to avoid, including static discharge, shock or vibration .....	Avoid heat, spark, open flames. Electrostatic charge.
Incompatible materials.....	Water, Amines, Strong bases, Alcohols, Copper alloys. Strong oxidizing agents. Acids. Alkalies. Nitrates. Plastics.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly. Under hot acidic conditions: Isobutylene and acetic acid. See hazardous combustion products section 5.

**PRODUCT: RF 1004-30PB TRUCK BED PROTECTIVE COATING PART B****SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
tert-Butyl acetate	>2,230 mg/m <sup>3</sup> 4 hours rat	4,100 mg/kg (rat, oral); >2,000 mg/kg (rabbit, dermal)
Homopolymer of HDI	390-453 mg/m <sup>3</sup> rat 4 hours	> 5,000 mg/kg (rat, oral); > 5,000 mg/kg (rabbit, dermal)
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Symptoms related to the physical, chemical and toxicological characteristics		
Skin contact.....	May cause skin irritation. Can cause reddening, itching, and swelling. Persons previously sensitized can experience allergic reaction with symptoms of reddening, itching, swelling and rash. Prolonged contact may cause defatting of tissue.	
Eye contact.....	Product liquid, aerosols or vapours are irritating. Damage is usually reversible. Can cause corneal damage. Can cause tearing, reddening and swelling.	
Inhalation (acute).....	Isocyanate vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Persons with preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the exposure limit with similar symptoms as well as asthma attack. Exposure well above the exposure limit may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure. Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, vomiting and unconsciousness.	
Ingestion.....	May be harmful if swallowed. May cause nausea, vomiting, and diarrhea. May cause central nervous system depression.	
Effects of chronic exposure.....	As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the exposure limit. Prolonged or repeated skin contact may result in dry, defatted and cracked skin, causing increased susceptibility to infection.	
Sensitizing capability of material.....	May cause sensitization by skin contact.	
Carcinogenicity of material.....	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.	
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.	
Specific Target Organ Toxicity .....	May cause drowsiness or dizziness. May cause respiratory irritation.	

**SECTION 12: ECOLOGICAL INFORMATION**

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

**SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal and methods of disposal, including any contaminated packaging. 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. Empty drums should be reconditioned by a properly licensed drum recycler.

**SECTION 14: TRANSPORT INFORMATION**

TDG Classification..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II - This product meets the limited quantity exemption when packaged in containers less than 5 Litres.

DOT Classification (Road)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II. Refer to 49CFR 172.101 for additional non-bulk packaging requirements.

IATA Classification (Air)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.

IMDG Classification (Marine)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II - 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. .

**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 substances ..... None.

**PRODUCT: RF 1004-30PB TRUCK BED PROTECTIVE COATING PART B****SECTION 15: REGULATORY INFORMATION**

Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.  
 Section 313..... None above De minimus % limit.  
 EPA hazardous air pollutants (HAPS) ..... Hexamethylene diisocyanate.  
 40CFR63  
 California Proposition 65..... This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**SECTION 16: OTHER INFORMATION**

Prepared by: ..... REGULATORY AFFAIRS. Trivalent Data Systems Ltd. [www.trivalent.com](http://www.trivalent.com).  
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