

Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario, L9T 3Y5 Canada 905-878-4990

12350 4:1 CLEARCOAT PRODUCT:

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd. 604 McGeachie Drive

Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

12350 4:1 CLEARCOAT

Product identifier..... Recommended use and restrictions on ...

Chemical family.....

NFPA rating.....

HMIS..... 24 hour emergency number:....

Acrylic coating. Health: 2 Fire: 3 Reactivity: 0.

H: 2 F: 3 R: 0.

Paints.

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 WordHazard Classification | Flammable Liquid 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ Toxicity — Single Exposure — |
|----------------------------------|---|
| Hazard Description | Category 3. Carcinogenicity — Category 2. H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients |
| Prevention | that are suspected of causing cancer. 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 | P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P308 + P313 If exposed or concerned, 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. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. 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. P321 - For specific |
| Storage | treatment see section 4 on this SDS. P405 Store locked up. P403 + P235 Store in well ventilated area. Keep cool. P403 + P233 Store in a well ventilated area. Keep container tightly closed. |
| Disposal Note | |

| SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS | | | | | |
|--|------------|-------|--|--|--|
| CHEMICAL NAME AND SYNONYMS CAS # WT. % | | | | | |
| Propylene Glycol Monomethyl Ether Acetate | 108-65-6 | 20-25 | | | |
| n-Butyl Acetate | 123-86-4 | 4-14 | | | |
| Acetone | 67-64-1 | 10-15 | | | |
| Methyl Isobutyl Ketone | 108-10-1 | 7-13 | | | |
| Ethyl Acetate | 141-78-6 | 7-13 | | | |
| Bis (1,2,2,6,6- Pentamethyl-4- Piperidyl) Sebacate | 41556-26-7 | <0.2 | | | |

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 | 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. |
| Most important symptoms and effects, | Harmful if swallowed, in contact with skin or if inhaled. Can cause skin sensitization. |
| whether acute or delayed | Causes serious eye irritation. May cause respiratory irritation. Vapors have a narcotic effect |
| • | and may cause headache, fatique, dizziness and nausea. This product contains |
| | ingredients that may cause cancer. |
| 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 "Alcohol" foam, media

"Alcohol" foam, CO2, dry chemical. Do not use water in a jet.

Oxides of carbon (CO, CO2). Hydrocarbon fumes and smoke.

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.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill.....

Evacuate all non-essential personnel. Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Recover spilled material and place in suitable containers for recycling or 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. 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. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| | 1 | | T | | |
|--|---|--|----------------------|---|---------------------------|
| INGREDIENTS | TWA | IH TLV STEL | PEL OSH | A PEL STEL | NIOSH REL |
| Propylene Glycol Monomethyl Ether Acetate | Not established | Not established | Not established | Not established | Not established |
| n-Butyl Acetate | 50 ppm | 150 ppm | 150 ppm | 200 ppm | 150 ppm / STEL 200 ppm |
| | CA ON: 50ppm (TW | 'A), 150ppm (STEL) | | | |
| Acetone | 250 ppm TLV | 500 ppm | 1,000 ppm | Not established | 250 ppm |
| | CA ON: 500ppm (T | NA); 750ppm (STEL) | | | |
| Methyl Isobutyl Ketone | 50 ppm | 75 ppm | 100 ppm | Not established | 50 ppm / STEL 75 ppm |
| | ON: 20 ppm (TWA), | 75 ppm (STEL) | | | |
| Ethyl Acetate | 400 ppm | Not established | 400 ppm | Not established | 400 ppm |
| | CA ON: 400 ppm (T | WA) | | | |
| Bis (1,2,2,6,6- Pentamethyl-4- Piperidyl) Sebacate | Not established | Not established | Not established | Not established | Not established |
| Personal Protective Equ Eye/type | Li | quid chemical goggles. | Chemical safety gogg | les and full faceshield if | a splash hazard |
| exists. Respiratory/type | | | is recommended. Wea | ar an appropriate, propended exposure limits. | erly fitted respirator |
| Gloves/ type | | Chemical resistant gloves. | | | |
| Footwear/type Other/type | Wear adequate protective clothes. Safety boots per local regulations. Emergency showers and eye wash stations should be available. Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air | | | | |
| | co g: Vo | 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. | | | |

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

| Appearance/Physical state | Liquid. |
|--|----------------------------|
| Colour | Clear. |
| Odour | Ketone odour. |
| Odour threshold (ppm) | Not available. |
| Vapour pressure (mm Hg) | Not available. |
| Vapour density (air=1) | >1. |
| pH | Not applicable. |
| Relative Density (Specific Gravity) | 7.99 lb/usg - 0.9588. |
| Melting / Freezing point (deg C) | No data. |
| Solubility | Slightly soluble in water. |
| Initial boiling point / boiling range (deg C). | 56°C (133 F). |
| Evaporation rate | Moderate. |
| Flash point (deg C), method | -18°C. (estimated). |
| Auto ignition temperature (deg C) | >300°C. |
| Upper flammable limit (% vol) | 12.6. |
| Lower flammable limit (% vol) | 1.2. |
| Partition coefficient — n-octanol/water | Not available. |
| VOC (less water) | 4.45 lb/usg - 533.2 g/L. |
| Viscosity | 13.5 sec Zahn #2. |

discharge, shock or vibration

SECTION 10: STABILITY AND REACTIVITY

Chemical stability..... Stable at normal temperatures and pressures. Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong Reactivity oxidizing agents. Will not occur under normal temperature and pressure. Keep away from heat. Incompatible with strong oxidizers.



SECTION 10: STABILITY AND REACTIVITY

Hazardous decomposition products....... Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

| INGREDIENTS | | LC50 | LD50 | |
|---|--|--|--|--|
| Propylene Glycol Monomethyl Ether Acetate | | Not Available | 8,532 mg/kg (rat oral) >5,000 mg/kg (rabbit dermal) | |
| n-Butyl Acetate | | >33 mg/L vapour, 5.2 mg (rat) dust/mist | /L 10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal) | |
| Acetone | | 50,100 mg/m3 8 hours, rat | 5,800 mg/kg (rat oral) | |
| Methyl Isobutyl Ketone | | 8.2 - 16.4 mg/L 4 hours rat | 2080 mg/kg rat oral >16,000 mg/kg rabbit dermal | |
| Ethyl Acetate | | 16,000 ppm 6 hours rat | 5,600 mg/kg (rat oral) | |
| Bis (1,2,2,6,6- Pentamethyl-4- Piperidyl) Seb | acate | Not Available | 2369-3920 mg/kg (oral rat), >2000 mg/kg (dermal rabbit) | |
| Route of exposure Effects of acute exposure | throat. In high concentra | on solvents in this product can tion, they may cause central n | be irritating to the eyes, nose and ervous system depression and dizziness from overexposure by | |
| Effects of chronic exposure | Breathing high concentrateffects. Contains an ingr | edient which caused reproduc | esthetic effects and serious health tive effects in rats after repeated e not been reported in humans. | |
| Skin contactSkin absorption | Can cause moderate irri | tation, defatting and dermatitis | | |
| Eye contactInhalation (acute) | Can cause redness, irrita Solvent vapours may be and itching of eyes, dryn | irritating to the eyes, nose and less of the throat and tightness | d throat, resulting in redness, burning in the chest. Breathing of high | |
| Inhalation (chronic) | vapour concentrations may cause anesthetic effects and serious health effects. 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 | Aspiration of material int be harmful or fatal if swa | nto lungs can cause chemical pneumonitis which can be fatal. May vallowed. | | |
| Carcinogenicity of materialReproductive effects | Methyl Isobutyl Ketone is No data on reproductive | s possibly carcinogenic to hum e effects were found in the liter | ans (IARC Group 2B). ature sources consulted. | |

SECTION 12: ECOLOGICAL INFORMATION

Sensitizing capability of material...... May cause sensitization by skin contact.

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.

SECTION 14: TRANSPORT INFORMATION

| TDG Classification | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters. |
|------------------------------|--|
| DOT Classification (Road) | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CRF 172.101 for additional non-bulk packaging requirements. |
| IATA Classification (Air) | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations. |
| IMDG Classification (Marine) | UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. |
| Marine Pollutant | Potential marine pollutant. |
| Proof of Classification | |



SECTION 15: REGULATORY INFORMATION

On Domestic Substances List (DSL). CEPA status..... TSCA inventory status..... All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard. OSHA. SARA Title III Section 302 - extremely hazardous substances Section 311/312 - hazard categories....... Immediate health, delayed health, fire hazard. Section 313..... Methyl Isobutyl Ketone. Methyl Isobutyl Ketone. Toluene. EPA hazardous air pollutants (HAPS) 40CFR63 California Proposition 65..... ***! WARNING: This product can expose you to chemicals including [see below], which

*** ! 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. (Methyl Isobutyl Ketone (D)). (Toluene). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Methyl Isobutyl Ketone (C)). For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

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2018-06-26



Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario, L9T 3Y5 Canada 905-878-4990

12354 MEDIUM ACTIVATOR PRODUCT:

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd. 604 McGeachie Drive

Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

12354 MEDIUM ACTIVATOR Paints. Accelerator and activator.

Product identifier..... Recommended use and restrictions on ..

Chemical family.....

Health: 3 fire: 3 reactivity: 2.

NFPA rating.... HMIS..... H: 3 F: 3 R: 2.

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 **. 24 hour emergency number:....

SECTION 02: HAZARD IDENTIFICATION



| Hazard Classification | Flammable Liquid 2. Aspiration Toxicity 1. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). Carcinogenicity — Category 2. Reproductive Toxicity — Category 2. |
|-----------------------|--|
| Hazard Description | H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 This product contains ingredients that are suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. |
| Prevention | P261 Avoid breathing mists, vapours and sprays. P271 Use only outdoors or in a well ventilated area. P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P280 Wear protective gloves and eye protection. P264 Wash thoroughly after handling. 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. P284 In case of inadequate ventilation wear respiratory protection. P272 Contaminated work clothing should not be allowed out of the workplace. |
| Response | P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P308 + P313 If exposed or concerned, 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. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. 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. P321 - For specific treatment see |
| Storage | section 4 on this SDS. P405 Store locked up. P403 + P235 Store in well ventilated area. Keep cool. P403 + P233 Store in a well ventilated area. Keep container tightly closed. |
| Disposal | P501 Dispose all unused, waste or empty containers in accordance with local regulations. |

| SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS | | | | |
|--|------------|-------|--|--|
| CHEMICAL NAME AND SYNONYMS | CAS# | WT. % | | |
| Xylene | 1330-20-7 | 20-30 | | |
| n-Butyl Acetate | 123-86-4 | 20-30 | | |
| Homopolymer of HDI | 28182-81-2 | 7-15 | | |
| Homopolymer of IPDI | 53880-05-0 | 7-15 | | |
| Ethyl 3-Ethoxypropionate | 763-69-9 | 3-8 | | |
| n-Amyl acetate | 628-63-7 | 3-8 | | |
| Methyl Isobutyl Ketone | 108-10-1 | 3-8 | | |
| Solvent Naphtha, Light Aromatics | 64742-95-6 | 1-5 | | |
| Propylene Glycol Monomethyl Ether Acetate | 108-65-6 | 1-5 | | |
| Diisobutyl Ketone | 108-83-8 | 0.5-5 | | |
| Propyl Benzene | 103-65-1 | 0.5-5 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.5-5 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.5-5 | | |
| Isophorone Diisocyanate | 4098-71-9 | 0.1-1 | | |
| Cumene | 98-82-8 | 0.1-1 | | |

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. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention. |
|--------------------------------------|---|
| Skin contact | If irritation persists, seek medical attention. Immediately flush skin with plenty of soap and |
| Inhalation | water. Remove contaminated clothing. Wash clothing before reuse. 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. Rinse |
| | mouth with water. 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, | Harmful if swallowed, in contact with skin or if inhaled. Causes skin and eye irritation. May |
| whether acute or delayed | cause respiratory irritation. Can cause skin sensitization. This product contains ingredients that are suspected of damaging fertility or the unborn child. This product contains ingredients that may cause cancer. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Additional information | In all cases, if irritation persists seek medical attention. In the event of an incident involving |
| | this product ensure that medical authorities are provided a copy of this safety data sheet. Eye: stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapours have produced reversible corneal epithelial edema impairing vision. Skin: this compound is a known skin sensitizer. Treat |
| | symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. Ingestion: treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. |

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media

Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used. Do not use water in a jet.

Oxides of carbon (CO, CO2). Oxides of nitrogen. Smoke. Hydrogen cyanide. Isocyanates. Other potentially toxic fumes.

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.



SECTION 06: ACCIDENTAL RELEASE MEASURES

| Leak/spill | Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. 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%). 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. |
|--------------|---|
| Major spills | If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. If transportation spill occurs in United States, call Chemtrec 1-800-424-9300. If transportation spill occurs in Canada, call Canutec at (613) 996-6666. Large quantities may be pumped into closed, but not sealed, containers for disposal. |
| Minor spills | Pour decontamination solution over spill area and allow to react for at least 10 minutes. Shovel into suitable containers and add further amounts of decontamination solution. Decontamination solution: Decontamination 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 uncovered for 72 hours to let carbon dioxide escape. |
| Clean up | Decontaminate floor with decontamination solution, letting stand for at least 15 minutes. |

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Avoid skin and eye contact. Do not breathe vapours, mist or dust. Use adequate ventilation. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray mist. Wash thoroughly after handling. Decomposition products are highly toxic and irritating. Employee education and training are important.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flames. Store in tightly closed containers to prevent moisture contamination. Exposure to vapours of heated isocyanates can be extremely dangerous. Do not reseal if contamination is suspected. Do not store above 50 deg C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| INGREDIENTS | TWA | H TLV STEL | OSH, PEL | A PEL STEL | NIOSH REL |
|---|---------------------|--------------------|-----------------------------|-----------------|---------------------------|
| Xylene | 50 ppm | 150 ppm | 100 ppm TWA | Not established | Not established |
| | CA ON: 100ppm (TV | VA); 150ppm (STEL) | | | |
| n-Butyl Acetate | 50 ppm | 150 ppm | 150 ppm | 200 ppm | 150 ppm / STEL 200 ppm |
| | CA ON: 50ppm (TW | A), 150ppm (STEL) | | | |
| Homopolymer of HDI | 5 mg/m3 | Not established | 5 mg/m3 | Not established | 5 mg/m3 |
| | Supplier: 0.5 mg/m3 | (TWA) | | | |
| Homopolymer of IPDI | Not established | Not established | Not established | Not established | Not established |
| Ethyl 3-Ethoxypropionate | Not established | Not established | Not established | Not established | Not established |
| n-Amyl acetate | 50 ppm/15 minutes | 100 ppm | 100 ppm | Not established | 100 ppm |
| Methyl Isobutyl Ketone | 50 ppm | 75 ppm | 100 ppm | Not established | 50 ppm / STEL 75 ppm |
| | ON: 20 ppm (TWA), | 75 ppm (STEL) | | | |
| Solvent Naphtha, Light Aromatics | Not established | Not established | 500 ppm (2000 mg/m3) TWA | Not established | 350 mg/m3 TWA |
| Propylene Glycol Monomethyl Ether Acetate | Not established | Not established | Not established | Not established | Not established |
| Diisobutyl Ketone | 25 ppm | Not established | 50 ppm | Not established | 25 ppm |
| Propyl Benzene | Not established | Not established | Not established | Not established | Not established |
| 1,2,4-Trimethylbenzene | 25 ppm | Not established | Not established | Not established | 25 ppm |

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| INGREDIENTS | TWA AC | CGIH TLV STEL | OSHA IPEL | PEL STEL | NIOSH REL |
|-------------------------|-----------------|--|--|--|---|
| | | | | | |
| 1,3,5-Trimethylbenzene | Not established | Not established | Not established | Not established | 25 ppm |
| Isophorone Diisocyanate | 0.005 ppm | Not established | Not established | Not established | 0.005 ppm skin |
| Cumene | 50 ppm | Not established | 50 ppm TWA | Not established | Not established |
| | | Chemical safety goggles as should not be worn when with the worn when with the world with an organic of | working with this chem of isocyanates exceed to be worn. A positive proparatus is recommen vapour cartridge and permitted only for short the exposure limit). Then airborne concentratoropriate exposure limitation. Do not exceed to Butyl rubber. Neoprelandling any food. Clothes. Wear imperviulations. Beye wash stations should be and handling of the permital ventilation to conchanical exhaust ventile to be emitted. Standard | ical. I the exposure limit or a ressure, supplied-air reded. At least an air-pur articulate pre-filters mu periods of time (< 1 horocomparticulate presitions are not known or it or spraying is perform he use limits of the response. Nitrile rubber. Practiculate protective clothing. Ald be available. Educatoroduct. Trol exposure levels belation should be used at a or oduring purging oper reference sources regarded. | re not known, spirator or a ifying respirator st be worn. ur) at relatively low ssure air supplied airborne solvent ned in a confined pirator. ice good hygiene, te and train ow airborne t sources of air rations, to capture arding industrial |

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

| Appearance/Physical state | No data. 10.6. 0.9. Not available. 56.75. |
|---------------------------|---|
| v 100001ty | 17.0 300 Zailli #Z. |

SECTION 10: STABILITY AND REACTIVITY

| Chemical stability | Stable at normal temperatures and pressures. |
|---------------------------------------|---|
| Reactivity | Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong |
| • | oxidizing agents. |
| Possibility of hazardous reactions | Contact with moisture, other materials that react with isocyanates, or temperatures above |
| • | 177C, may cause polymerization. |
| Conditions to avoid, including static | |
| discharge, shock or vibration | trioxide. Perchloric acid. Xylene:. May attack plastics, rubber and coatings. |
| Hazardous decomposition products | See hazardous combustion products section 5. |
| · · · · · · · · · · · · · · · · · · · | · |



SECTION 11: TOXICOLOGICAL INFORMATION INGREDIENTS LD50 LC50 **Xylene** 6350 ppm 4 hours rat >3523 mg/kg rat oral 10760 mg/kg (rat, oral) 14112 n-Butyl Acetate >33 mg/L vapour. 5.2 mg/L (rat) dust/mist mg/kg (rabbit, dermal) > 5,000 mg/kg (rat, oral); 390-453 mg/m3 rat 4 hours Homopolymer of HDI > 5,000 mg/kg (rabbit, dermal) Homopolymer of IPDI Not Available Not Available 4,309 mg/kg rat oral mg/kg rabbit dermal Ethyl 3-Ethoxypropionate >998 ppm 6 hours 4,080 n-Amyl acetate >976 ppm 4 hours rat 6500 mg/kg rat oral 8359 mg/kg rabbit dermal Methyl Isobutyl Ketone 8.2 - 16.4 mg/L 4 hours rat 2080 mg/kg rat oral >16,000 mg/kg rabbit dermal >5,000 mg/kg rat oral >2,000 Solvent Naphtha, Light Aromatics 5.2 mg/L 4 hours, rat 3400 ppm 4 hours, rat mg/kg rabbit dermal Propylene Glycol Monomethyl Ether Acetate Not Available 8,532 mg/kg (rat oral) >5,000 mg/kg (rabbit dermal) 5,285 mg/kg rat oral >2,000 mg/kg Diisobutyl Ketone >2,300 ppm 4 hours rat dermal 6,040 mg/kg rat oral Propyl Benzene Not Available 1,2,4-Trimethylbenzene >2,000 ppm 48 hours rat 3,280 mg/kg rat oral 1,3,5-Trimethylbenzene Not Available Not Available Isophorone Diisocyanate 123 mg/m3 4 hours rat >1,000 mg/kg rat oral 1,060 mg/kg rat dermal Cumene No Data 50 PPM. SKIN Eye contact. Skin contact. Inhalation. Route of exposure..... 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. Symptoms including chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed. There are reports that once sensitized, an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and, in severe cases, for several years. Sensitization can be permanent. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Prolonged vapour contact may cause conjunctivitis. Prolonged skin contact may cause reddening, swelling, rash, scaling, blistering, and in some cases, sensitization. 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. Causes skin irritation. Causes reddening, stinging and swelling. Persons previously sensitized can experience allergic reaction with symptoms of reddening, itching, swelling Skin contact..... and rash. Cured product is difficult to remove. Not available. Skin absorption..... Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. Vapours can produce irritation. Symtoms include tearing and reddening. Eye contact..... Isocyanate vapour/mists at concentrations above the exposure limits can irritate (burning Inhalation (acute)..... 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. Causes 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. 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. Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, nausea and asphyxiation. May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical Ingestion..... pneumonitis which can be fatal. May cause central nervous system effects such as headache, nausea, vomiting and weakness. Methyl Isobutyl Ketone is possibly carcinogenic to humans (IARC Group 2B). Cumene is listed by IARC in Group 2B as a possible carcinogen. Carcinogenicity of material.....



SECTION 11: TOXICOLOGICAL INFORMATION

Methyl Isobutyl Ketone is known by the State of California to cause adverse fetal Reproductive effects.....

developmental 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.

Sensitizing capability of material..... May cause sensitization by inhalation. May cause sensitization by skin contact.

SECTION 12: ECOLOGICAL INFORMATION

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

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.

SECTION 14: TRANSPORT INFORMATION

UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets TDG Classification..... the Limited Quantity exemption when packaged in containers less than 5 liters.

DOT Classification (Road)..... UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre).

Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity.

IATA Classification (Air).....

Do not ship by air without checking appropriate IATA regulations.
UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. IMDG Classification (Marine).....

Limited Quantity.

Marine Pollutant..... Potential marine pollutant.

In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July Proof of Classification..... 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.

This product is considered hazardous under the OSHA Hazard Communication Standard.

OSHA..... SARA Title III

Section 302 - extremely hazardous Isophorone Diisocyanate.

substances

Section 311/312 - hazard categories...... Section 313..... Immediate health, delayed health, fire hazard. 1,2,4-Trimethylbenzene. Methyl Isobutyl Ketone. Xylene.

EPA hazardous air pollutants (HAPS) Cumene. Hexamethylene diisocyanate. Methyl Isobutyl Ketone. Xylene.

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. (Benzene (D)). (Methyl Isobutyl Ketone (D)). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Benzene). (Cumene). (Ethyl benzene). (Methyl Isobutyl Ketone (C)). information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. Prepared by: (800) 387-7981.

Telephone number:.....

DISCLAIMER: All information appearing herein is based upon data obtained from Disclaimer:..... 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.

Review Date:..... 2021-11-15. Date of the latest revision of the safety ...

data sheet

2018-06-26

