



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

**PRODUCT: 12350 CLEARCOAT 4:1**

## SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd.  
604 McGeachie Drive  
Milton, Ontario L9T3Y5  
Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... 12350 CLEARCOAT 4:1

Recommended use and restrictions on .. Paints.  
use

Chemical family..... Acrylic coating.

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

HMIS..... H: 2 F: 3 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. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ Toxicity — Single Exposure — Category 3. Carcinogenicity — Category 2.

Hazard Description..... 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 that are suspected of causing cancer.

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 ..... 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 treatment see section 4 on this SDS.

Storage..... 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.

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

**PRODUCT: 12350 CLEARCOAT 4:1****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, ..... whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. Can cause skin sensitization. Causes serious eye irritation. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, 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 ..... 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	Oxides of carbon (CO, CO <sub>2</sub> ). 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. 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.
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**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**

**PRODUCT: 12350 CLEARCOAT 4:1****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
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
Acetone	CA ON: 50ppm (TWA), 150ppm (STEL) 250 ppm TLV	500 ppm	1,000 ppm	Not established	250 ppm
Methyl Isobutyl Ketone	CA ON AB: 500ppm (TWA); 750ppm (STEL) 50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm
Ethyl Acetate	ON: 20 ppm (TWA), 75 ppm (STEL) 400 ppm	Not established	400 ppm	Not established	400 ppm
Bis (1,2,2,6,6-Pentamethyl-4- Piperidyl) Sebacate	Not established	Not established	Not established	Not established	Not established
Personal Protective Equipment					
Eye/type.....	Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.				
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.				
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.				

**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.

**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.....	Will not occur under normal temperature and pressure.
Conditions to avoid, including static discharge, shock or vibration .....	Keep away from heat. Incompatible with strong oxidizers.

**PRODUCT: 12350 CLEARCOAT 4:1****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/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)
Acetone	50,100 mg/m <sup>3</sup> 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) Sebacate	Not Available	2369-3920 mg/kg (oral rat), >2000 mg/kg (dermal rabbit)

Route of exposure.....	Eye contact. Skin contact. Inhalation.
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.
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Contains an ingredient which caused reproductive effects in rats after repeated application of large amounts to skin. These effects have not been reported in humans.
Skin contact.....	Can cause moderate irritation, defatting and dermatitis.
Skin absorption.....	Chronic skin exposure to solvents may cause effects similar to those identified under chronic inhalation.
Eye contact.....	Can cause redness, irritation, tissue destruction.
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.
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.....	Aspiration of material into lungs can cause chemical pneumonitis which can be fatal. May be harmful or fatal if swallowed.
Carcinogenicity of material.....	Methyl Isobutyl Ketone is possibly carcinogenic to humans (IARC Group 2B).
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.
Sensitizing capability of material.....	May cause sensitization by skin contact.

**SECTION 12: ECOLOGICAL INFORMATION**

Environmental..... 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 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 49CFR 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.....	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. .

PRODUCT: 12350 CLEARCOAT 4:1

### 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.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Methyl Isobutyl Ketone.
EPA hazardous air pollutants (HAPS) ..... 40CFR63	Methyl Isobutyl Ketone. Toluene.
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. (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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .

### SECTION 16: OTHER INFORMATION

Prepared by: .....	REGULATORY AFFAIRS. Trivalent Data Systems Ltd. <a href="http://www.trivalent.com">www.trivalent.com</a> .
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.
Review Date:.....	2022-11-30.
Date of the latest revision of the safety data sheet	2018-06-26



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

**PRODUCT: 12354 MEDIUM ACTIVATOR FOR 12350**

### SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd.  
604 McGeachie Drive  
Milton, Ontario L9T3Y5  
Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... 12354 MEDIUM ACTIVATOR FOR 12350

Recommended use and restrictions on .. Paints. Accelerator and activator.  
use

Chemical family..... Mixture.

NFPA rating..... Health: 3 fire: 3 reactivity: 2.

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

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. 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 section 4 on this SDS.

Storage..... 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.

**PRODUCT: 12354 MEDIUM ACTIVATOR FOR 12350****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 water. Remove contaminated clothing. Wash clothing before reuse.
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. 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, ..... whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. Causes skin and eye irritation. May 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.
Specific hazards arising from the ..... hazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO <sub>2</sub> ). Oxides of nitrogen. Smoke. Hydrogen cyanide. Isocyanates. Other potentially toxic fumes.
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. 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: 12354 MEDIUM ACTIVATOR FOR 12350****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	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Xylene	50 ppm CA ON: 100ppm (TWA); 150ppm (STEL)	150 ppm	100 ppm TWA	Not established	Not established
n-Butyl Acetate	50 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	150 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
Homopolymer of HDI	5 mg/m3 Supplier: 0.5 mg/m3 (TWA)	Not established	5 mg/m3	Not established	5 mg/m3
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 ON: 20 ppm (TWA), 75 ppm (STEL)	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm
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



**PRODUCT: 12354 MEDIUM ACTIVATOR FOR 12350****SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
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
Personal Protective Equipment					
Eye/type.....	Chemical safety goggles and full faceshield if a splash hazard exists. Contact lenses should not be worn when working with this chemical.				
Respiratory/type.....	Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn. A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended. At least an air-purifying respirator equipped with an organic vapour cartridge and particulate pre-filters must be worn. However, this should be permitted only for short periods of time (< 1 hour) at relatively low concentrations (at or near the exposure limit). The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate exposure limit or spraying is performed in a confined space or with limited ventilation. Do not exceed the use limits of the respirator.				
Gloves/ type.....	Chemical resistant gloves. Butyl rubber. Neoprene. Nitrile rubber. Practice good hygiene, wash thoroughly before handling any food.				
Clothing/type.....	Wear adequate protective clothes. Wear impervious protective clothing.				
Footwear/type.....	Safety boots per local regulations.				
Other/type.....	Emergency showers and eye wash stations should be available. Educate and train employees on the safe use and handling of the product.				
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.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....	Liquid.
Colour.....	Light yellow.
Odour.....	Aromatic odour. Solvent odour.
Odour threshold (ppm).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	>1.
pH.....	Not applicable.
Relative Density (Specific Gravity).....	8.19 lb/usg - 0.982.
Melting / Freezing point (deg C).....	No data.
Solubility.....	Negligible.
Initial boiling point / boiling range (deg C).....	No data.
Evaporation rate.....	No data.
Flash point (deg C), method.....	12 °C. (estimate; lowest flash point ingredient).
Auto ignition temperature (deg C).....	No data.
Upper flammable limit (% vol).....	10.6.
Lower flammable limit (% vol).....	0.9.
Partition coefficient — n-octanol/water.....	Not available.
% Volatile by volume.....	56.75.
VOC (less water).....	4.11 lb/usg - 492.48 g/L.
Viscosity.....	14.0 sec Zahn #2.

**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 .....	Water, amines, strong bases, alcohols. Copper alloys. Alumina. Silica gel. Chromium trioxide. Perchloric acid. Xylene:. May attack plastics, rubber and coatings.
Hazardous decomposition products.....	See hazardous combustion products section 5.

## PRODUCT: 12354 MEDIUM ACTIVATOR FOR 12350

## SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
n-Butyl Acetate	>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)
Homopolymer of HDI	390-453 mg/m3 rat 4 hours	> 5,000 mg/kg (rat, oral); > 5,000 mg/kg (rabbit, dermal)
Homopolymer of IPDI	Not Available	Not Available
Ethyl 3-Ethoxypropionate	>998 ppm 6 hours	4,309 mg/kg rat oral 4,080 mg/kg rabbit dermal
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)
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)
Propylene Glycol Monomethyl Ether Acetate	Not Available	8,532 mg/kg (rat oral) >5,000 mg/kg (rabbit dermal)
Diisobutyl Ketone	>2,300 ppm 4 hours	5,285 mg/kg (rat oral) >2000 mg/kg (rat dermal)
Propyl Benzene	Not Available	6,040 mg/kg rat oral
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

Route of exposure.....	Eye contact. Skin contact. Inhalation.
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.
Skin contact.....	Causes skin irritation. Causes reddening, stinging and swelling. Persons previously sensitized can experience allergic reaction with symptoms of reddening, itching, swelling and rash. Cured product is difficult to remove.
Skin absorption.....	Not available.
Eye contact.....	Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. Vapours can produce irritation. Symptoms include tearing and reddening.
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. 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.
Ingestion.....	May be harmful or fatal if swallowed. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal. May cause central nervous system effects such as headache, nausea, vomiting and weakness.
Carcinogenicity of material.....	Methyl Isobutyl Ketone is possibly carcinogenic to humans (IARC Group 2B). Cumene is listed by IARC in Group 2B as a possible carcinogen. .

**PRODUCT: 12354 MEDIUM ACTIVATOR FOR 12350****SECTION 11: TOXICOLOGICAL INFORMATION**

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

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 49CFR 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..... 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 ..... Isophorone Diisocyanate.  
substances

Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.

Section 313..... 1,2,4-Trimethylbenzene. Methyl Isobutyl Ketone. Xylene.

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

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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