

Plastique Royal 2809 Rue Etienne Lenoir Laval; H7R 6J4 QC

PRODUCT: FUS24LV FAST ACTIVATOR

Section 01: Chemical product and company identification

Product name Manufactured for	FUS24LV FAST ACTIVATOR
Manufactured for	2809 Rue Etienne-Lenoir
	Laval, QC H7R 6J4
24 hour emergency number:	IN CANADA CALL CANUTEC (613) 996-6666-IN THE UNITED STATES CALL
Material use	CHEMTREC (800) 424-9300. Paints. Accelerator and activator. This product should not be used for any other purpose
	other than the ones described in this section.
Chemical family	Mixture.
Preparation date	December 17, 2014.
Hazard rate	
NFPA rating	Health: 2 Fire: 3 Reactivity: 0.
HMIS	H: 2 F: 3 R: 0.

Section 02: Hazards identification

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DANGER	E3	\

Signal Word	DANGER.
Hazard Classification	Flammable Liquid 2. Skin Sensitizer 1. Eye Irritant 2. Respiratory Sensitizer 1A. STOT SE
	3. Carcinogen 2. Reproductive 2.
Hazard Description	H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H319
riazaru Description	
	Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing
	difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or
	dizziness. H351 This product contains ingredients that are suspected of causing cancer.
	H361 This product contains ingredients that are suspected of damaging fertility or the
	unborn child.
Precautionary Statements	P201 Obtain special instructions before use. P202 Do not handle this product until all
Trocadillonary Claronic normalism	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 hands
	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. P284 In case of inadequate ventilation wear
	respiratory protection.
Response	P302 + P352 - If on skin: wash with plenty of water P303 + P361 + P353 If on skin or in
·	hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use
	safety shower . P304 + P340 - If inhaled remove person to fresh air and keep comfortable
	for breathing. P305 + P351 + P338 If in eyes rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing until medical
	help arrives. P308 + P313 If exposed or concerned, get medical advice/attention. P312 Call
	a poison center/doctor if you feel unwell. P321 - Consult with a doctor or poison control
	centre if skin is itchy or a skin rash develops or you feel unwell. P333 + P313 If skin
	irritation or rash occurs, medical advice/attention. P342 + P311 If experiencing respiratory
	symptoms; call poison center or doctor. P362 + P364 - Take off contaminated clothing and
	wash before reuse. P370 + P378 In case of fire - use dry chemical powder, CO2 or 6%
	foam.
Storage	P403 + P233 Store in a well ventilated area. Keep container tightly closed. P403 + P235
-	Store in well ventilated area. Keep cool. P405 Store locked up.
Disposal	
Diopodai	1 301 Bioposo di dilacod, Masio di cilipty containers in accordance with local regulations.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS		
Hazardous Ingredients	CAS#	Wt. %
ACETIC ACID, TERT-BUTYL ESTER	540-88-5	30-60
HOMOPOLYMER OF HDI	28182-81-2	10-30
HOMOPOLYMER OF IPDI	53880-05-0	7-13
ETHYL ACETATE	141-78-6	7-13
N-BUTYL ACETATE	123-86-4	3-7

PRODUCT: FUS24LV FAST ACTIVATOR

Additional information.....

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS		
ETHYL 3-ETHOXYPROPIONATE	763-69-9	3-7
SOLVENT NAPHTHA, LIGHT AROMATICS	64742-95-6	3-7
METHYL ISOBUTYL KETONE	108-10-1	3-7
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
ISOPHORONE DIISOCYANATE	4098-71-9	0.1-1.0
HEXAMETHYLENE DIISOCYANATE	822-06-0	0.1-1.0

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. 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. If ingestion is suspected, contact physician or poison control center immediately. If Ingestion.....

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. Rinse mouth with water. Do not induce vomiting.

In all cases, if irritation persists seek medical attention. 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. Respiratory: this compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate. 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

Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used. Extinguishing media..... Hazardous combustion products..... Oxides of carbon (CO, CO2). Oxides of nitrogen. Smoke. Hydrogen cyanide. Isocyanates. Other potentially toxic fumes. Special fire fighting procedures.....

Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. 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. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated	
Major spills	ammonia (3-8%) and detergent (2%). 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.	
Minor spills	Large quantities may be pumped into closed, but not sealed, containers for disposal. Absorb isocyanates with sawdust or other absorbent. 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. Add about 10 parts of decontamination solution per part of isocyanate. 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 earliest disvide accesses.	
Clean up	to let carbon dioxide escape. Decontaminate floor with decontamination solution, letting stand for at least 15 minutes.	

PRODUCT: FUS24LV FAST ACTIVATOR

Handling procedures.....

Section 07: Handling and storage

Do not breathe vapours, mist or dust. Use adequate ventilation. 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. Avoid skin and eye contact. Wash thoroughly after handling. Decomposition products are highly toxic and irritating. Ensure that equipment is properly bonded and grounded during filling

and transferring as product may become electrostatically charged. Employee education and training are important.

Storage temperature min/max 34-50C. Store in tightly closed containers to prevent Storage needs..... moisture contamination. Keep away from heat, sparks, and open flames. Do not reseal if contamination is suspected. Exposure to vapours of heated isocyanates can be extremely

dangerous.

Section 08: Exposure controls / personal protection

Protective equipment	
Eye/type	Liquid chemical goggles. Contact lenses should not be worn when working with this
Respiratory/type	chemical. 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.
Ventilation requirements	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. .

Exposure limits		adequate vertiliation			
Ingredients	TWA ACGI	H TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
ACETIC ACID, TERT-BUTYL ESTER	200 ppm	Not established	200 ppm	Not established	200 ppm
HOMOPOLYMER OF HDI	5 mg/m3	Not established	5 mg/m3	Not established	5 mg/m3
HOMOPOLYMER OF IPDI	Not established	Not established	Not established	Not established	Not established
ETHYL ACETATE	400 ppm	Not established	400 ppm	Not established	400 ppm
N-BUTYL ACETATE	150 ppm	200 ppm	150 ppm	200 ppm	150 ppm / STEL 200 ppm
ETHYL 3-ETHOXYPROPIONATE	Not established	Not established	Not established	Not established	Not established
SOLVENT NAPHTHA, LIGHT AROMATICS	Not established	Not established	Not established	Not established	Not established
METHYL ISOBUTYL KETONE	50 ppm	75 ppm	100 ppm	Not established	50 ppm / STEL 75 ppm
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
ISOPHORONE DIISOCYANATE	0.005 ppm	Not established	Not established	Not established	0.005 ppm skin
HEXAMETHYLENE DIISOCYANATE	0.005 ppm	Not established	Not established	Not established	0.005 ppm

Toxicological Data

PRODUCT: FUS24LV FAST ACTIVATOR

Section 09: Physical and chemical properties

Section 10: Stability and reactivity

Section 11: Toxicological information

Route of entry Eye contact. Skin contact. Inhalation. As a result of previous repeated overexposure or a single large dose, certain individuals Effects of chronic exposure..... 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 Skin contact..... sensitized can experience allergic reaction with symptoms of reddening, itching, swelling and rash. Cured product is difficult to remove. Skin absorption..... Not available. 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..... 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. 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 known to the state of California to cause cancer and Carcinogenicity of material..... developmental effects. Reproductive effects..... Methyl isobutyl ketone passes through the placental barrier.

PRODUCT: FUS24LV FAST ACTIVATOR

Ingredients	LC50-inh, rat	LD50-Oral,rat
ACETIC ACID, TERT-BUTYL ESTER	>2,230 mg/m3 4 hours rat	4,100 mg/kg rat oral >2,000 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	No data	No data
ETHYL ACETATE	16,000 ppm 6 hours rat	5,600 mg/kg rat oral
N-BUTYL ACETATE	1.36 - 2.38 mg/L 4 hours rat	>3200 mg/kg rat oral >5000 mg/kg rabbit dermal
ETHYL 3-ETHOXYPROPIONATE	>998 ppm 6 hours	4,309 mg/kg rat oral 4,080 mg/kg rabbit dermal
SOLVENT NAPHTHA, LIGHT AROMATICS	5.2 mg/L 4 hours rat	>5,000 mg/kg rat oral >3,160 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
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	No data	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 >2,000 mg/kg rat dermal
PROPYL BENZENE	No data	6,040 mg/kg rat oral
ISOPHORONE DIISOCYANATE	123 mg/m3 4 hours rat	>1,000 mg/kg rat oral 1,060 mg/kg rat dermal
HEXAMETHYLENE DIISOCYANATE	22 ppm 4 hours rat	738 mg/kg rat oral 593 mg/kg rabbit dermal

Section 12: Ecological information

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

Section 13: Disposal considerations

Waste disposal..... Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.

Section 14: Transport information

TDG Classification (Road)	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 (5 Liters/1.3
	Gallons).
IATA Classification (Air)	UN1263 - Paint Related Material - Class 3 - Packing Group II.
IMDG Classification (Marine)	UN1263 - Paint Related Material - Class 3 - Packing Group II - EmS: F-E S-E.
Marine Pollutant	Potential marine pollutant.
Proof of Classification	In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (J

July 2, 2014) - we certify that classification of this product is correct. .

Section 15: Regulatory information

WHMIS classification	B2. D2A. D2B.
CEPA status	
OSHA	This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III	
Section 302 - extremely hazardous	Isophorone Diisocyanate TPQ 100.
substances	
Section 311/312 - hazard categories	Immediate health, delayed health, fire hazard.
Section 313	Methyl Isobutyl Ketone. Isophorone Diisocyanate. Hexamethylene diisocyanate.
EPA hazardous air pollutants (HAPS)	Methyl Isobutyl Ketone. Hexamethylene diisocyanate. Ethyl acetate.
40CFR63	
TSCA inventory status	All components are listed.
California Proposition 65	This product contains Methyl Isobutyl Ketone (MIBK) known to the State of California to
•	cause cancer.

Section 16: Other information

Prepared by:	REGULATORY AFFAIRS.
Telephone number:	(800) 387-7981

PRODUCT: FUS24LV FAST ACTIVATOR

Section 16: Other information

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 Disclaimer:..... 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.

Disclaimer:.... Regulatory Affairs