

Safety Data Sheet



Preparation Date: November 16, 2020

Version: 1

SECTION 1. IDENTIFICATION

Product Identifier

Product Name

Hydrotech® LM 6090 ACTIVATOR
Formerly known as LM 6090 Activator

Other Means of Identification

POLYMERIC MDI
P MDI
AROMATIC ISOCYANATE MIX

Recommended Use

CURING COMPONENT OF 2-PART LIQUID RUBBER MEMBRANE

Restrictions on Use

NO INFORMATION AVAILABLE

Initial Supplier Identifier

Sika Corporation
201 Polito Avenue,
Lyndhurst, NJ 07071 USA

Emergency Telephone Number

PERS: 1-800-633-8253 (Domestic / Canada)
Poison Control Center (QC 24 hours) : 1-800-463-5060

SECTION 2. HAZARD IDENTIFICATION

Classification

ACUTE TOXICITY (INHALATION):	CATEGORY 3
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	CATEGORY 3
RESPIRATORY SENSITIZATION:	CATEGORY 1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	CATEGORY 2
SKIN IRRITATION:	CATEGORY 2
SKIN SENSITIZATION:	CATEGORY 1B
EYE IRRITATION:	CATEGORY 2B

Label Elements

HAZARD PICTOGRAMS:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

TOXIC IF INHALED
CAUSES SKIN IRRITATION
CAUSES EYE IRRITATION
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED
MAY CAUSE AN ALLERGIC SKIN REACTION
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE
MAY CAUSE AN ALLERGIC SKIN REACTION

PRECAUTIONARY STATEMENTS:

PREVENTION:

WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
USE ONLY OUTDOORS OR IN A WELL VENTILATED AREA
WASH FACE, HANDS AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING
IN CASE OF INADEQUATE VENTILATION WEAR RESPIRATORY PROTECTION
CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE
DO NOT BREATHE DUST/FUMES/GAS/MIST/VAPOURS/SPRAY

RESPONSE:

GET MEDICAL ATTENTION IF YOU FEEL UNWELL
IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ATTENTION
WASH CONTAMINATED CLOTHING BEFORE REUSE
IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING
IF EYE IRRITATION PERSISTS: GET MEDICAL ATTENTION
IF INHALED: IF BREATHING IS DIFFICULT, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING
IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING

STORAGE:

STORE LOCKED UP IN A WELL VENTILATED PLACE
KEEP CONTAINER TIGHTLY CLOSED

DISPOSAL:

DISPOSE OF CONTENTS AND CONTAINER IN ACCORDANCE WITH EXISTING FEDERAL, PROVINCIAL, STATE AND LOCAL LAWS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



WEIGHT PERCENT	COMPONENTS
60-70%	DIPHNYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)
50-60%	DIPHENYLMETHANE DIISOCYANATE (MDI)

SECTION 4. FIRST-AID MEASURES

General Advice

SHOW THE SAFETY DATA SHEET TO THE DOCTOR IN ATTENDENCE IF EXPOSED OR CONCERNED. GET MEDICAL ADVICE/ATTENTION

Inhalation

MAY CAUSE ALLERGIC RESPIRATORY REACTION. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. REMOVE TO FRESH AIR. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION

Skin Contact

MAY CAUSE AN ALLERGIC SKIN REACTION. IN THE CASE OF SKIN IRRITATION OR ALLERGIC REACTIONS SEE A PHYSICIAN. WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER FOR AT LEAST 15 MINUTES

Eye Contact

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE LUKEWARM WATER IF POSSIBLE. USE FINGERS TO ENSURE THAT EYELIDS ARE SEPARATED AND THAT THE EYE IS BEING IRRIGATED. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS

Ingestion

DO NOT INDUCE VOMITING. WASH MOUTH OUT WITH COLD WATER. CLEAN MOUTH WITH WATER AND DRINK AFTERWARDS PLENTY OF WATER. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION

Self-Protection of the First Aider

ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED AND TAKE PRECAUTIONS TO PROTECT THEMSELVES AND TO PREVENT SPREAD OF CONTAMINATION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. AVOID DIRECT CONTACT WITH THE SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. SEE SECTION 8 FOR MORE INFORMATION



Most Important Symptoms and Effects, Acute and Delayed

HARMFUL IF INHALED. MAY CAUSE ALLERGIC RESPIRATORY REACTION. AT ROOM TEMPERATURE, VAPOURS ARE MINIMAL DUE TO LOW VAPOUR PRESSURE. IF MATERIAL IS HEATED OR MIST IS PRODUCED, CONCENTRATIONS MAY BE ATTAINED THAT ARE SUFFICIENT TO CAUSE IRRITATION AND OTHER EFFECTS. VERY LOW TOXICITY IF SWALLOWED. HARMFUL EFFECTS NOT ANTICIPATED FROM SWALLOWING SMALL AMOUNTS. MAY CAUSE TEMPORARY CORNEAL INJURY. MAY CAUSE MODERATE EYE IRRITATION. LUNG TUMORS HAVE BEEN OBSERVED IN LABORATORY ANIMALS EXPOSED TO AEROSOL DROPLETS OF MDI/POLYMERIC MDI (N A MG/M3) FOR THEIR LIFETIME. PROLONGED SKIN CONTACT IS UNLIKELY TO RESULT IN ABSORPTION OF HARMFUL AMOUNTS. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. TUMORS OCCURRED CONCURRENTLY WITH RESPIRATORY IRRITATION AND LUNG INJURY. PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS. IN LABORATORY ANIMALS, MDI/POLYMERIC MDI DID NOT CAUSE BIRTH DEFECTS; OTHER FETAL EFFECTS OCCURRED ONLY AT HIGH DOSES WHICH WERE TOXIC TO THE MOTHER. EXCESSIVE EXPOSURE TO MDI/POLYMERIC MDI AEROSOLS CAUSES TISSUE INJURY IN THE UPPER RESPIRATORY TRACT AND LUNGS AS OBSERVED IN LABORATORY ANIMALS. MAY CAUSE PULMONARY EDEMA OR LONG TERM LUNG DAMAGE. EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT (NOSE AND THROAT) AND LUNGS. MAY STAIN THE SKIN. COUGHING, CHEST PAINS AND BREATHING DIFFICULTY MAY OCCUR. CURRENT EXPOSURE GUIDELINES ARE EXPECTED TO PROTECT AGAINST THESE EFFECTS REPORTED FOR MDI

Indication of any Immediate Medical Attention and Special Treatment Needed

EXCESSIVE EXPOSURE MAY AGGREGATE PREEXISTING ASTHMA AND OTHER RESPIRATORY DISORDERS (IE. EMPHYSEMA, BRONCHITIS, REACTIVE AIRWAYS DYSFUNCTION SYNDROME). IF YOU ARE SENSITIZED TO DIISOCYANATES CONSULT YOUR PHYSICIAN REGARDING WORKING WITH OTHER RESPIRATORY IRRITANTS OR SENSITIZERS. MAY CAUSE RESPIRATORY SENSITIZATION OR ASTHMA-LIKE SYMPTOMS. BRONCHODILATORS, EXPECTORANTS AND ANTITUSSIVES MAY BE OF HELP. TREAT BRONCHOSPASM WITH INHALED BETA2 AGONIST AND ORAL OR PARENTERAL CORTICOSTEROIDS. MAINTAIN ADEQUATE VENTILATION AND OXYGENATION OF THE PATIENT. EXPOSED PERSON SHOULD BE OBSERVED FOR 24-48 HOURS FOR DELAYED ONSET OF PULMONARY EDEMA. TREATMENT BASED ON SOUND JUDGEMENT OF PHYSICIAN AND INDIVIDUAL REACTIONS OF PATIENT.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

WATER IS NOT RECOMMENDED, BUT MAY BE APPLIED IN LARGE QUANTITIES AS A FINE SPRAY WHEN OTHER EXTINGUISHING AGENTS ARE NOT AVAILABLE. WATER FOG OR FINE SPRAY, CARBON DIOXIDE, DRY CHEMICAL, FOAM. ALCOHOL RESISTANT FOAMS (ATC TYPE) ARE PREFERRED IF AVAILABLE. GENERAL PURPOSE SYNTHETIC FOAMS (INCLUDING AFFF) OR PROTEIN FOAMS MAY FUNCTION, BUT MUCH LESS EFFECTIVELY. DO NOT USE DIRECT WATER STREAM, WHICH WILL SPREAD FIRE

Specific Hazards Arising from the Substance or Mixture

VIOLENT STEAM GENERATION OR ERUPTION MAY OCCUR UPON APPLICATION OF DIRECT WATER STREAM TO HOT LIQUIDS. REACTS VIOLENTLY WITH WATER WITH THE EVOLUTION OF HEAT. DENSE SMOKE MAY BE GENERATED WHILE BURNING. CONTAINER MAY RUPTURE FROM GAS GENERATION IN A FIRE SITUATION

Hazardous Combustion Products

CARBON MONOXIDE. CARBON DIOXIDE. OXIDES OF NITROGEN. ISOCYANATES. HYDROGEN CYANIDE. THERMAL DECOMPOSITION CAN LEAD TO RELEASE OF IRRITATING GASES AND VAPOURS

Special Protective Equipment for Fire Fighters

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIREFIGHTING TURNOUT GEAR. USE PERSONAL PROTECTION EQUIPMENT

SECTION 6. ACCIDENTAL RELEASE MEASURES



Personal Precautions, Protective Equipment and Emergency Procedures

AVOID CONTACT WITH SKIN, EYES OR CLOTHING. ENSURE ADEQUATE VENTILATION. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. EVACUATE PERSONNEL TO SAFE AREAS. KEEP PEOPLE AWAY FROM AND UPWARD OF SPILL/LEAK

Environmental Precautions

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO

Methods and Materials for Containment and Cleaning Up

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

SPILLS OF THESE ORGANIC MATERIALS ON HOT FIBROUS INSULATIONS MAY LEAD TO LOWERING OF THE AUTOIGNITION TEMPERATURE, POSSIBLY RESULTING IN SPONTANEOUS COMBUSTION. FOR INDUSTRIAL USE ONLY. HANDLE AND OPEN CONTAINERS WITH CARE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT INGEST. AVOID INHALATION OF CHEMICAL. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. KEEP THE CONTAINERS CLOSED WHEN NOT IN USE. PROTECT AGAINST PHYSICAL DAMAGE. USE APPROPRIATE PERSONNEL PROTECTIVE EQUIPMENT

Conditions for Safe Storage, Including any Incompatibilities

PROTECT AGAINST MOISTURE. STORE BETWEEN 24-41 °C (75-105 °F). MAINTAIN A NITROGEN ATMOSPHERE. DO NOT STORE PRODUCT CONTAMINATED WITH WATER TO PREVENT POTENTIAL HAZARDOUS REACTION. STORE IN A DRY, WELL VENTILATED AREA, AWAY FROM HEAT AND IGNITION SOURCES. PLACE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

CHEMICAL NAME	ALBERTA OEL	BRITISH COLUMBIA OEL	ONTARIO	QUEBEC OEL	EXPOSURE LIMIT ACGIH	IMMEDIATELY DANGEROUS TO LIFE OR HEALTH - IDLH
DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)	TWA: 0.005 PPM TWA: 0.07 MG/M3	NOT AVAILABLE (N.AV.)	N.AV.	N.AV.	N.AV.	N.AV.
DIPHENYLMETHANEDI-ISOCYANATE	TWA 0.005 PPM TWA 0.05 MG/M3	TWA 0.005 PPM CEILING 0.01 PPM SKIN SENSITIZER	TWA 0.005 PPM CEV: 0.02 PPM	TWA 0.005 PPM TWA 0.051 MG/M3	0.005 PPM TLV-TWA	75 MG/M3



Appropriate Engineering Controls

Engineering Controls

PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES

Individual Protection Measures, such as personal Protective Equipment

Hand Protection

EXAMPLES OF PREFERRED GLOVE BARRIER MATERIALS INCLUDE:

BUTYL RUBBER

POLYETHYLENE

CHLORONATED POLYETHYLENE

ETHYL VINYL ALCOHOL LAMINATE (EVAL)

EXAMPLES OF ACCEPTABLE GLOVE BARRIER MATERIALS INCLUDE:

VITON

NATURAL RUBBER (LATEX)

NEOPRENE

NITRILE/BUTADIENE RUBBER (NITRILE OR NBR)

POLYVINYL CHLORIDE (PVC OR VINYL)

NOTICE: THE SELECTION OF A SPECIFIC GLOVE FOR A PARTICULAR APPLICATION AND DURATION OF USE IN A WORKPLACE SHOULD ALSO TAKE INTO ACCOUNT ALL RELEVANT WORKPLACE FACTORS SUCH AS, BUT NOT LIMITED TO OTHER CHEMICALS WHICH MAY BE HANDLED, PHYSICAL REQUIREMENTS (CUT/PUNCTURE PROTECTION/DEXTERITY/THERMAL PROTECTION), POTENTIAL BODY REACTIONS TO GLOVE MATERIALS AS WELL AS THE INSTRUCTIONS/SPECIFICATIONS PROVIDED BY THE GLOVE SUPPLIER. APPROPRIATE CHEMICAL RESISTANT GLOVES SHOULD BE WORN

Eye/Face Protection

WEAR SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES. IF SPLASHES ARE LIKELY TO OCCUR, WEAR SAFETY GLASSES WITH SIDE-SHIELDS

Skin and Body Protection

WEAR SUITABLE PROTECTIVE CLOTHING. LONG SLEEVED CLOTHING

Respiratory Protection

IF EXPOSURE EXCEEDS OCCUPATIONAL EXPOSURE LIMITS, USE AN APPROPRIATE NIOSH APPROVED RESPIRATOR. IN CASE OF SPILL RESULTING IN UNKNOWN CONCENTRATION, USE A NIOSH APPROVED SUPPLIED AIR RESPIRATOR. AIR PURIFYING RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGES

General Hygiene Considerations

AVOID CONTACT WITH SKIN, EYES OR CLOTHING. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. REMOVE AND WASH CONTAMINATED CLOTHING AND GLOVES, INCLUDING THE INSIDE, BEFORE RE-USE. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	LIQUID
Odour & Appearance:	BROWN, MUSTY
Odour Threshold:	N.AV.
pH:	N.AV.
Freezing Point:	N.AV.
Boiling Point:	N.AV.
Flash Point:	> 204 °C (>399 °F) (PENSKY-MARTENS CLOSED CUP)
Evaporation Rate:	N. AV.
Upper and Lower Explosive Limit:	N.AV.
Vapour Pressure:	<0.0001 mmHg @ 25 °C (77 °F)
Vapour Density (air = 1):	N.AV.
Density:	N.AV.
Relative Vapour Density:	N.AV.
Specific Gravity:	1.24
Solubility in Water:	N.AV.
Partition Coefficient, n-Octanol / Water (Log Kow)	N.AV.
Auto-ignition Temperature:	N.AV.
Decomposition Temperature:	N.AV.
Dynamic Viscosity:	N.AV.
Kinematic Viscosity:	N.AV.
Bulk Density:	N.AV.

SECTION 10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability

STABLE UNDER NORMAL CONDITIONS

ATEMIX (ORAL)	33,823.00 MG/KG
ATEMIX (DERMAL)	8,063.00 MG/KG
ATEMIX (INHALATION-DUST/MIST)	0.96 MG/L

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)	= 49 G/KG (RAT)	>9.4 G/KG (RABBIT)	=490 MG/M3 (RAT) 4H
DIPHENYLMETHANEDI- ISOCYANATE	=31,600 MG/KG (RAT) >10,000 MG/KG (RAT)	>10,000 MG/KG (RABBIT)	=369 MG/M3 (RAT) 4H =490 MG/M3 (RAT) 4H

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Skin Corrosion/Irritation

MAY CAUSE AN ALLERGIC SKIN REACTION. PROLONGED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS. MAY STAIN THE SKIN. PROLONGED SKIN CONTACT IS UNLIKELY TO RESULT IN ABSORPTION OF HARMFUL AMOUNTS

**Serious Eye Damage/Eye Irritation**

MAY CAUSE TEMPORARY CORNEAL INJURY. MAY CAUSE MODERATE EYE IRRITATION

Respiratory or Skin Sensitization

MAY CAUSE SENSITIZATION BY INHALATION. MAY CAUSE SENSITIZATION BY SKIN CONTACT

Germ Cell Mutagenicity

NO INFORMATION AVAILABE

Carcinogenicity

CLASSIFICATION BASED ON DATA AVAILABLE FOR INGREDIENTS

THE TABLE BELOW SHOWS WHETHER EACH AGENCY HAS LISTED ANY INGREDIENT AS A CARCINOGEN

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)	NOT AVAILABLE	GROUP 3	NOT AVAILABLE	NOT AVAILABLE
DIPHENYLMETHANEDI- ISOCYANATE	NOT AVAILABLE	GROUP 3	NOT AVAILABLE	NOT AVAILABLE

Legend

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER)

GROUP 3 – NOT CLASSIFIABLE AS TO CARCINOGENICITY IN HUMANS

Reproductive Toxicity

NO INFORMATION AVAILABLE

Specific Target Organ System Toxicity – Single Exposure

MAY CAUSE RESPIRATORY IRRITATION

Specific Target Organ System Toxicity – Repeated Exposure

MAY CAUSE DAMAGE TO ORGANS

Aspiration Hazard

NO INFORMATION AVAILABLE

Possibility of Hazardous Reactions

NO ADDITIONAL REMARK

Hazardous Polymerization

MAY OCCUR. MATERIAL CAN REACT WITH ITSELF AT TEMPERATURES ABOVE 160 °C (320 °F)

Conditions to Avoid

MATERIAL CAN REACT WITH ITSELF AT TEMPERATURES ABOVE 160°C (320 °F). AVOID STORAGE OF THIS PRODUCT AT ELEVATED TEMPERATURES. CONTAINER CAN BE PRESSURIZE BY CARBON DIOXIDE DUE TO REACTION WITH HUMID AND/OR WATER. DO NOT EXPOSE MATERIAL TO HEAT (>40 °C). GENERATION OF GAS DURING DECOMPOSITION CAN CAUSE PRESSURE IN CLOSED SYSTEMS
MOISTURE

**Incompatible Materials**

MOISTURE. BASES. AMMONIA. AVOID CONTACT WITH METALS SUCH AS ALUMINUM, ZINC, BRASS, TIN, COPPER AND GALVANIZED METALS. ALCOHOLS. WATER. STRONG OXIDIZERS. AMINES. METALLIC COMPOUNDS. ACIDS

Hazardous Decomposition Products

CARBON DIOXIDE (CO₂), CARBON MONOXIDE (CO), OXIDES OF NITROGEN (NO_x)

ISOCYANATES, HYDROGEN CYANIDE.

THERMAL DECOMPOSITION CAN LEAD TO RELEASE OF IRRITATING GASES AND VAPOURS

SECTION 11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure****Inhalation**

EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT (NOSE AND THROAT) AND LUNGS. IN LABORATORY ANIMALS, MDI/POLYMERIC MDI DID NOT CAUSE BIRTH DEFECTS. OTHER FETAL EFFECTS OCCURRED ONLY AT HIGH DOSES WHICH WERE TOXIC TO THE MOTHER. TUMORS OCCURRED CONCURRENTLY WITH RESPIRATORY IRRITATION AND LUNG INJURY. MAY CAUSE ALLERGIC RESPIRATORY REACTION. AT ROOM TEMPERATURE, VAPOURS ARE MINIMAL DUE TO LOW VAPOUR PRESSURE. IF MATERIAL IS HEATED OR MIST IS PRODUCED, CONCENTRATIONS MAY BE ATTAINED THAT ARE SUFFICIENT TO CAUSE IRRITATION AND OTHER EFFECTS. MAY CAUSE RESPIRATORY TRACT IRRITATION. HARMFUL IF INHALED. EXCESSIVE EXPOSURE TO MDI/POLYMERIC MDI AEROSOLS CAUSES TISSUE INJURY IN THE UPPER RESPIRATORY TRACT AND LUNGS AS OBSERVED IN LAB ANIMALS. CURRENT EXPOSURE GUIDELINES ARE EXPECTED TO PROTECT AGAINST THESE EFFECTS REPORTED OF MDI. COUGHING, CHEST PAINS AND BREATHING DIFFICULTY MAY OCCUR. LUNG TUMORS HAVE BEEN OBSERVED IN LAB ANIMALS EXPOSED TO AEROSOL DROPLETS OF MDI/POLYMERIC MDI (6 MG/M³) FOR THEIR LIFETIME. MAY CAUSE PULMONARY EDEMA OR LONG TERM LUNG DAMAGE

Eye Contact

MAY CAUSE MODERATE EYE IRRITATION. MAY CAUSE TEMPORARY CORNEAL INJURY

Skin Contact

MAY CAUSE AN ALLERGIC SKIN REACTION. PROLONGED SKIN CONTACT IS UNLIKELY TO RESULT IN ABSORPTION OF HARMFUL AMOUNTS. MAY STAIN THE SKIN. PROLONGED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS

Ingestion

VERY LOW TOXICITY IF SWALLOWED. HARMFUL EFFECTS NOT ANTICIPATED FROM SWALLOWING SMALL AMOUNTS

Information on Toxicological Effects**Symptoms**

AN ANIMAL STUDY INDICATED THAT MDI MAY INDUCE RESPIRATORY HYPERSENSITIVITY FOLLOWING DERMAL EXPOSURE



SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

THE ENVIRONMENTAL IMPACT OF THIS PRODUCT HAS NOT BEEN FULLY INVESTIGATED

CHEMICAL NAME	ECOTOXICITY – FRESHWATER ALGAE DATA	ECOTOXICITY – FISH SPECIES DATA	TOXICITY TO MICROORGANISMS	CRUSTACEA
DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
DIPHENYLMETHANEDI-ISOCYANATE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

Biodegradation

NO INFORMATION AVAILABLE

Bioaccumulation

NO INFORMATION AVAILABLE

Component Information

CHEMICAL NAME	PARTITION COEFFICIENT
DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)	NOT AVAILABLE
DIPHENYLMETHANEDI-ISOCYANATE	4.5

Other Adverse Effects

NO INFORMATION AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Method

WASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH EXISTING FEDERAL, PROVINCIAL, STATE AND LOCAL ENVIRONMENTAL CONTROL LAWS

DO NOT REUSE EMPTY CONTAINERS



SECTION 14. TRANSPORT INFORMATION

Land Transport (TDG - CANADA)
NON-REGULATED

Land Transport (DOT - USA)
NON-REGULATED

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for Substance or Mixture

CHEMICAL NAME	CERCLA/SARA – SECTION 302	SARA (311/312) HAZARD CLASS	CERCLA/SARA – SECTION 313
DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)	NOT LISTED	NOT LISTED	LISTED
DIPHENYLMETHANEDI-ISOCYANATE	NOT LISTED	LISTED	LISTED

International Inventories

TSCA – COMPLIES
DSL/NDSL – COMPLIES

LEGEND

TSCA – UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8(B) INVENTORY
DSL/NDSL – CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

SECTION 16. OTHER INFORMATION

NFPA **HEALTH HAZARDS 3** **FLAMMABILITY 0** **INSTABILITY 0**

HMIS HEALTH RATING **HEALTH HAZARDS *2** **FLAMMABILITY 0** **PHYSICAL HAZARDS 0**

PHYSICAL AND CHEMICAL PROPERTIES – PERSONAL PROTECTION X

Legend

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (TIME WEIGHTED AVERAGE)

CEILING MAXIMUM LIMIT VALUE

STEL

*

STEL (SHORT TERM EXPOSURE LIMIT)

SKIN DESIGNATION

Date of Latest Revision

NOVEMBER 16/20, VERSION 1.0

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