



# LEXCOR MATERIAL SAFETY DATA SHEET

DATE PREPARED: 04-14-2015

## SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

### PRODUCT NAME

## INSULTAC II PUMP GRADE INSULATION ADHESIVE PART "A"

### SUPPLIER NAME AND ADDRESS

*Lexsuco 2010 Corporation  
3275 Orlando Dr.  
Mississauga, Ontario L4V 1C5  
Tel: 905.792.8800 Fax: 905.792.8801*

### EMERGENCY TELEPHONE NUMBER:

*CANUTEC 613-996-6666 (24 hours every day)*

### Regulatory Information Number:

*Tel: 1-877-792-8308*

**Chemical Category:** Mixture  
**General Use:** Adhesive

## SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture



GHS08 Health Hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335 May cause respiratory irritation.

Label elements

GHS label elements : The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:



GHS07



GHS08

Signal word: Danger  
Hazard Statements: Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
May cause respiratory irritation.

Precautionary statements:

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Wear respiratory protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wear protective gloves.
- Wear eye protection / face protection.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see on this label).
- If experiencing respiratory symptoms: Call a poison center/doctor.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- Wash contaminated clothing before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- If on skin: Wash with plenty of water.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification System:  
NFPA ratings (scale 0-4)



Health = 2  
Fire = 1  
Reactivity = 0

HMIS-ratings (scale 0-4)

HEALTH	2
FIRE	1
PHYSICAL HAZARD	0

Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.  
vPvB: Not applicable.

### SECTION 3 - INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	% wt or % vol
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	50-100%
4,4'-methylenediphenyl diisocyanate	101-68-8	25-50%
Methylenediphenyl diisocyanate	26447-40-5	2.5-10%

Chemical characterization: Mixtures  
Description: Aromatic Isocyanates

Additional Information: All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-sprayable products is highly unlikely. For the wording of the listed risk phrases refer to section 15.

## SECTION 4 - FIRST AID MEASURES

### Description of First Aid Measures

<b>General information:</b>	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
<b>After inhalation:</b>	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Call a doctor immediately.
<b>After skin contact:</b>	Overexposure, remove to fresh air and seek medical attention. If skin becomes irritated seek medical attention.
<b>After eye contact:</b>	Immediately wash with water and soap and rinse thoroughly.
<b>After swallowing:</b>	Rinse out mouth with water. Drink 1 - 2 glasses of water but DO NOT induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical treatment.

### Information for Doctor:

<b>Most important symptoms and effects, both acute and delayed:</b>	No further relevant information available.
<b>Indication of any immediate medical attention and special treatment needed:</b>	No further relevant information available.

## SECTION 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

<b>Suitable extinguishing agents:</b>	CO <sub>2</sub> , extinguishing powder or water spray. Fight larger first with water spray. Use fire fighting measures that suit the environment.
<b>For safety reasons unsuitable extinguishing agents:</b>	Do not use direct water stream.
<b>Special hazards arising from the substance or mixture:</b>	No further relevant information available.

### Advice for firefighters

<b>Protective equipment:</b>	Mouth respiratory protective device. Protective clothing and respiratory protective device.
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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	Keep away from ignition sources
<b>Environmental precautions:</b>	Do not allow to enter sewers/surface or ground water.

### **Methods and material for containment and cleaning up:**

Cover spilled material with neutralization solution (see below) and mix. Wait 15 minutes. Collect material in openhead metal containers. Repeat neutralization and cleaning process until surface is decontaminated. Apply drum lid but DO NOT secure. Allow containers to vent for 72 hours to let carbon dioxide escape.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.

### **Reference to other sections**

#### Neutralization solutions:

1. A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.
  2. A mixture of 80% water, 20% non-ionic surfactant.
- See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7 - HANDLING & STORAGE

### Handling:

**Precautions for safe handling:** Avoid prolonged or repeated contact with skin.  
Avoid contact with eyes.  
Wash thoroughly after handling.  
Prevent formation of aerosols.

**Information about protection against explosions and fires:** Product reacts with water. Reaction may produce heat and/or gases. Container may rupture from gas generation in a fire situation. This reaction may be violent.

### Conditions for safe storage, including any incompatibilities

#### Storage:

**Requirements to be met by storerooms and receptacles:** Keep containers tightly closed when not in use. Protect from atmospheric moisture.

**Information about storage in one common storage facility:** Keep away from open flames and high temperatures.

**Further information about storage conditions:** Storage Temperature - 32F - 90F

Keep receptacle tightly sealed.

#### Specific end use(s):

No further relevant information available.

## SECTION 8 - EXPOSURE CONTROL & PERSONAL PROTECTION

**Additional information about design of technical systems:** No further data.

### Control parameters

#### Components with limit values that require monitoring at the workplace:

##### 101-68-8 4,4'-methylenediphenyl diisocyanate

PEL	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm
	Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm

#### Additional information:

MDI products have poor warning properties, since recognition of an odour is far above the TLV. Observe OSHA regulations for respirator use (29 CFR 1910.134).

The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment (see listings below)

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

#### Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

#### Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

Chloroprene rubber, CR  
Nitrile rubber, NBR  
Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Face Shield  
Safety glasses with side shields.

Tightly sealed goggles

**Body protection:**

Apron  
Protective work clothing

<b>SECTION 9 - PHYSICAL &amp; CHEMICAL PROPERTIES</b>
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**Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Liquid

**Color:** Dark Amber

**Odour:** Characteristic

**Odour threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**

**Melting point:** Undetermined.

**Boiling point:** 200°C (392°F)

**Flash point:** 220°C (428°F)

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** 400°C (752°F)

**Decomposition temperature:** Not determined.

**Auto Igniting:** >428F

**Danger of explosion:** Product does not present an explosion hazard.

**Flammable limits:**

**Lower:** 0.4 Vol %

**Upper:** % by volume = 6.7

**Vapor pressure:** 0 mm Hg

<b>Specific gravity at 20 °C (68 °F):</b>	1.22 g/cm <sup>3</sup> (10.181 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	200 mPas
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	100%
<b>Other information</b>	No further relevant information available.

## SECTION 10 - STABILITY & REACTIVITY

### Reactivity

#### Chemical stability

#### Thermal decomposition/conditions to be avoided:

Contact with moisture, other materials that react with isocyanates, or temperatures above 350F (177C), may cause polymerization.

#### Possibility of hazardous reactions

Violent reaction with water at high temperatures.

May produce violent reactions with bases and numerous organic substances including alcohols and amines. MDI reacts slowly with water to form Carbon Dioxide gas. This gas can cause sealed containers to expand and possibly rupture. Contact with moisture, other materials that react with isocyanates, or temperatures above 350F, may cause polymerization.

#### Conditions to avoid

Exposure to high temperatures.

Moisture

#### Incompatible materials:

Reacts with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols.

Reacts with water forming carbon dioxide-may rupture sealed containers if contaminated with water.

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

#### Hazardous decomposition products:

Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, isocyanic acid, other undetermined compounds.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

#### 101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 2200 mg/kg (mouse)

#### Primary irritant effect:

**on the skin:** Skin irritant.

Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

#### Sensitization:

Inhalation - Sensitization possible through inhalation.

Skin Contact - Sensitization possible through skin contact.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful  
Irritant

**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

9016-87-9	diphenylmethanediisocyanate, isomers and homologues	3
101-68-8	4,4'-methylenediphenyl diisocyanate	3

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

<b>SECTION 12 - ECOLOGICAL INFORMATION</b>
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**Toxicity**

<b>Aquatic toxicity:</b>	No further relevant information available.
<b>Persistence and degradability:</b>	No further relevant information available.
<b>Behaviour in environmental systems:</b>	
<b>Bioaccumulative potential:</b>	No further relevant information available.
<b>Mobility in soil:</b>	No further relevant information available.
<b>Additional ecological information:</b>	
<b>General notes:</b>	At present there are no ecotoxicological assessments. Water hazard class 1 (Self-Assemsment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
<b>Results of PBT and vPvB assessment</b>	
<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.
<b>Other adverse effects:</b>	No further relevant information available.

<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>
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**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.  
Disposal must be made according to official regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

<b>SECTION 14 - TRANSPORT INFORMATION</b>
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**UN-Number**

<b>DOT, ADR, ADN, IMDG, IATA</b>	not regulated
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**UN proper shipping name**

<b>DOT, ADR, ADN, IMDG, IATA</b>	not regulated
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**Transport hazard class(es)**

<b>DOT, ADR, ADN, IMDG, IATA</b>	
<b>Class</b>	not regulated

**Packing group**

<b>DOT, ADR, IMDG, IATA</b>	not regulated
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**Environmental hazards:** Not applicable.

**Special precautions for user:** Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

**Transport/Additional information:** MDI (CAS 101-68-8) exhibits a CERCLA RQ equal to 5,000 pounds. Quantities less than the RQ amount are not regulated in transportation.

**UN "Model Regulation":** -

<b>SECTION 15 - REGULATORY INFORMATION</b>
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**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Sara

**Section 355 (extremely hazardous substances):** None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):**  
 9016-87-9 diphenylmethanediisocyanate, isomers and homologues  
 101-68-8 4,4'-methylenediphenyl diisocyanate

**TSCA (Toxic Substances Control Act):**  
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**Proposition 65**  
**Chemicals known to cause cancer:** None of the ingredients is listed.  
**Chemicals known to cause reproductive toxicity:** None of the ingredients is listed.

**(DSL) Canada Domestic Substance List:** All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

**Carcinogen categories**  
**EPA (Environmental Protection Agency):**  
 9016-87-9 diphenylmethanediisocyanate, isomers and homologues CBD  
 101-68-8 4,4'-methylenediphenyl diisocyanate D, CBD

**TLV (Threshold Limit Value established by ACGIH):** None of the ingredients listed.

**MAK (German Maximum Workplace Concentration)**  
 9016-87-9 diphenylmethanediisocyanate, isomers and homologues 4  
 101-68-8 4,4'-methylenediphenyl diisocyanate 4

**NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients is listed.

**National Regulations:**

**Water Hazard Class:** Water hazard class 1 (Self-Assessment): slightly hazardous for water.  
**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.



## SECTION 16 - OTHER INFORMATION

*The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.*

**Reference:** *The information herein is presented in good faith and believed to be correct as of the date hereof. Information is based upon supplier issued material safety data sheets and may be subject to error. If apprised of changes, updated MSDS will be promptly issued. Users must make their own determination regarding the suitability of the product for their own purposes prior to use.*

*Prepared By: Lexsuco 2010 Corporation*



# LEXCOR MATERIAL SAFETY DATA SHEET

DATE PREPARED: 04-14-2015

## SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

### PRODUCT NAME

## INSULTAC II PUMP GRADE INSULATION ADHESIVE PART "B"

### SUPPLIER NAME AND ADDRESS

Lexsco 2010 Corporation  
3275 Orlando Dr.  
Mississauga, Ontario L4V 1C5  
Tel: 905.792.8800 Fax: 905.792.8801

### EMERGENCY TELEPHONE NUMBER:

CANUTEC 613-996-6666 (24 hours every day)

### Regulatory Information Number:

Tel: 1-877-792-8308

**Chemical Category:** Mixture  
**General Use:** Foamable Adhesive for Insulation

## SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture



GHS07

Acute Tox. 4 H302 Harmful if swallowed.  
Acute Tox. 4 H312 Harmful in contact with skin.

Label elements

GHS label elements : The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:



GHS07

Signal word: Warning  
Hazard Statements: Harmful if swallowed or in contact with skin.

Precautionary statements:

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Wear protective gloves/protective clothing.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Specific treatment (see on this label).
- If swallowed: Call a poison centre/doctor if you feel unwell.
- Rinse mouth.
- If on skin: Wash with plenty of water.
- Take off contaminated clothing and wash it before reuse.

- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification System:  
NFPA ratings (scale 0-4)



Health = 3  
Fire = 0  
Reactivity = 0

HMSI-ratings (scale 0-4)

HEALTH	3
FIRE	0
PHYSICAL HAZARD	0

Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.  
vPvB: Not applicable.

### SECTION 3 - INFORMATION ON INGREDIENTS

Hazardous and Non Hazardous Ingredients	CAS #	% wt or % vol
Tertiary Amine	82136-26-3	≤ 2.5%

Chemical characterization: Mixtures

Description: Mixture

Additional information: All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-sprayable products is highly unlikely. For the wording of the listed risk phases refer to section 15.

### SECTION 4 - FIRST AID MEASURES

#### Description of First Aid Measures

**General Information:** Immediately remove any clothing soiled by the product.  
In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation:** In case of unconsciousness place patient stably in side position for transportation.  
Call a doctor immediately.  
Overexposure, remove to fresh air and seek medical attention.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment. Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Rinse out mouth with water. Drink 1 - 2 glasses of water but DO NOT induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.  
Do not induce vomiting; immediately call for medical help.  
Seek medical treatment.

#### Information for Doctor:

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

## SECTION 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

**Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture:** No further relevant information available.

### Advice for firefighters

**Protective equipment:** Protective clothing and respiratory protective device.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation.

**Environmental precautions:** Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/surface or ground water.

### **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.

### **Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7 - HANDLING & STORAGE

### **Handling:**

**Precautions for safe handling:** Avoid prolonged or repeated contact with skin.  
Avoid contact with eyes.  
Wash thoroughly after handling.  
Open containers in a well ventilated area and avoid breathing headspace vapours.  
Prevent formation of aerosols.

**Information about protection against explosions and fires:** No special measures required.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.  
**Information about storage in one common storage facility:** Store away from oxidizing agents.  
**Further information about storage conditions:** Keep receptacle tightly sealed.  
**Specific end use(s):** No further relevant information available.

## SECTION 8 - EXPOSURE CONTROL & PERSONAL PROTECTION

**Additional information about design of technical systems:** No further data. See item 7.

### **Control parameters**

### **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation were used as basis.

## Exposure controls

### Personal protective equipment (see listings below)

#### General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

#### Breathing equipment:

- Not necessary if room is well-ventilated.
- Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

#### Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves:

- Nitrile rubber, NBR
- Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses with side shields.

**Body protection:** Protective work clothing

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

**Form:** Liquid  
**Colour:** Clear  
**Odour:** Mild  
**Odour threshold:** Not determined.

**pH-value:** Not determined.

##### Change in condition

**Melting point:** Undetermined.  
**Boiling point:** Undetermined.

**Flash point:** Not Determined.  
Not applicable.

<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Auto Igniting:</b>	Product is not self igniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Flammable limits:</b>	
<b>Lower:</b>	% by volume = .9
<b>Upper:</b>	% by volume = 6.7
<b>Vapour pressure:</b>	Not determined.
<b>Specific gravity at 20 °C (68 °F):</b>	1 g/cm <sup>3</sup> (8.345 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	2.2%
<b>VOC (Per EPA 24):</b>	not available GMS/L
<b>Solids Content:</b>	1.7%
<b>Other information</b>	No further relevant information available.

## SECTION 10 - STABILITY & REACTIVITY

### Reactivity

#### Chemical stability

<b>Thermal decomposition/conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	Exposure to high temperatures.
<b>Incompatible materials:</b>	Reacts with oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon dioxide, carbon monoxide, tin oxide

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

#### 82136-26-3 Tertiary Amine

Oral	LD50	1.537 mg/kg (rat)
Dermal	LD50	1.772 mg/kg (rabbit)

#### Primary irritant effect:

<b>on the skin:</b>	Skin irritant.
<b>on the eye:</b>	May irritate the eye.
<b>Sensitization:</b>	No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

<b>SECTION 12 - ECOLOGICAL INFORMATION</b>
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**Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Behaviour in environmental systems:**

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Additional ecological information:**

**General notes:** Water hazard class 2 (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>
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**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.  
Disposal must be made according to official regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

<b>SECTION 14 - TRANSPORT INFORMATION</b>
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**UN-Number**

DOT, ADR, ADN, IMDG, IATA not regulated

**UN proper shipping name**

DOT, ADR, ADN, IMDG, IATA not regulated

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA  
Class not regulated

<b>Packing group</b> DOT, ADR, IMDG, IATA	not regulated
<b>Environmental hazards:</b>	Not applicable.
<b>Special precautions for user:</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
<b>UN "Model Regulation":</b>	-

<b>SECTION 15 - REGULATORY INFORMATION</b>
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**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Sara

**Section 355 (extremely hazardous substances):** None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**  
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**Proposition 65**

**Chemicals known to cause cancer:** None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity:** None of the ingredients is listed.

**(DSL) Canada Domestic Substance List:** All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

**Carcinogenicity categories**

**EPA (Environmental Protection Agency):** None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH):** None of the ingredients listed.

**MAK (German Maximum Workplace Concentration):** None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients is listed.

**National regulations:** Water hazard class 2 (Self-Assessment): slightly hazardous for water.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

<b>SECTION 16 - OTHER INFORMATION</b>
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*The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.*

**Reference:** *The information herein is presented in good faith and believed to be correct as of the date hereof. Information is based upon supplier issued material safety data sheets and may be subject to error. If apprised of changes, updated MSDS will be promptly issued. Users must make their own determination regarding the suitability of the product for their own purposes prior to use.*

*Prepared By: Lexsuco 2010 Corporation*