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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Flexible Cement II - Part A

Recommended use : Part of concrete repair system

Company : Roadware Inc.

Address : 381 Bridgepoint Way

South Saint Paul, MN 55075

Phone : 651-717-4386

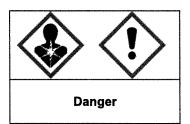
Emergency Telephone Numbers : Chem-Tel: 800-255-3924

Restrictions on use : For professional or industrial use only

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (oral)	4
Skin irritation	2
Eye irritation	2B
Respiratory sensitizer	1
Skin sensitizer	1
Reproductive toxicity	1B
Specific organ toxicity – single exposure (respiratory system)	3
Specific organ toxicity – repeated exposure (respiratory tract)	1



Hazard Statements

M332	Harmiui ii innaled.
H302	Harmful if swallowed
H315	Causes skin irritation.
H320	Causes eye irritation.
H334	May cause alleray or

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

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child

H372 Causes damage to organs (respiratory tract) through prolonged or repeated exposure

(inhalation).

Precautionary statements:

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash skin thoroughly after handling.



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Keep away from flames and hot surfaces. No smoking.

Avoid breathing dust, fume, gas, vapors or spray. Use outdoors or only in well ventilated area. In case of inadequate ventilation wear respiratory protection.

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Do not eat, drink or smoke when using this product.

Contaminated clothing must not be allowed out of the workplace.

Response statements:

If swallowed: Rinse mouth. Call a poison center or doctor/physician if you feel unwell.

If on skin: Rinse skin with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Remove contaminated clothing and wash before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep at rest in a comfortable position for breathing. If experiencing respiratory symptoms or if you feel unwell: Contact a doctor or medical professional.

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 advice/attention.

If exposed or concerned get medical advice/attention

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents and container in accordance with existing federal, state and local environmental control laws.

Section 3. Composition / Information on Ingredients

This product is a mixture.

Hazardous Components

CAS Number	Chemical Name	Concentration
117-81-7	Di-(2-ethylhexyl) phalate	10-30%
101-68-8	4,4'-Diphenylmethane diisocyanate	10-30%
9016-87-9	Polymeric diphenylmethane diisocyanate	10-30%
5873-54-1	2,4'-Diphenlymethane diisocyanate	1-7%

Specific chemical identities and exact percentages may have been withheld as a trade secret or CBI in compliance with 29 CFR 1910.1200 (i).

4. First Aid Measures

General Advice	Take proper precautions to ensure your own health and safety before attempting rescue or administering first aid. Wear protective clothing and gloves. See section 8 for recommendations. Remove contaminated clothing. Move to a well ventilated area or outdoors.
Skin Contact	After contact with skin, wash immediately with plenty of soap and water. Get medical attention if irritation or rash develops. Wash clothing before reuse. Clean shoes thoroughly before reuse. An MDI study has demonstrated that a polyglycol based skin cleanser or corn oil may be more effective than soap and water.
Inhalation	If inhaled, move affected persons to fresh air. If not breathing, give artificial respiration. Get medical attention immediately. Treatment is symptomatic for primary irritation or bronchospasm. If breathing is labored, qualified personnel should administer oxygen.
Ingestion	If swallowed, get medical attention immediately. Wash out mouth with water. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Most important symptoms and effects (acute and delayed)	Most important symptoms and effects are described in section 2 and/or section 11. Diphenylmethane Diisocyanate (MDI) vapors or mist at levels above the TLV or PEL can irritate the respiratory tract (nose, throat, lungs). Respiratory sensitization may result in allergic or asthmatic like symptoms including difficulty breathing, coughing, shortness of breath and



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wheezing. These symptoms may be delayed several hours after exposure. These effects are usually reversible. Persons with a preexisting bronchial hyper-reactivity to MDI may respond to levels below the TLV or PEL with similar asthmatic like symptoms. Exposure to high vapor concentrations of heavy aromatic solvents can cause central nervous system depression, dizziness, light headedness, headache, nausea, and loss of coordination.
Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Specific antidotes or neutralizers to isocyanates do not exist. Potential for chemical pneumonitis, treat appropriately.

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5. Firefighting Measures

Notes to Physician

Dry chemical, Carbon Dioxide (CO2), alcohol resistant foam, water fog.
Avoid high volume water jet, may spread fire.
In a fire or if heated, a pressure increase will occur and the container may burst. Produces oxides of carbon and nitrogen as well as isocyanates. Combustion products may be toxic and/or irritating. Avoid smoke.
Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.
Due to reaction with water producing CO2 gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated.

6. Accidental Release Measures

Personal protection	Immediately contact emergency personnel. Isolate the area. Keep upwind avoiding inhalation of vapors. Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Use suitable protective equipment (see section 8).
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	Contain and adsorb large spillages onto an inert, non-flammable adsorbent carrier (such as earth, vermiculite or sand). Shovel into open-top drums or plastic bags for further decontamination if necessary. Do not tightly seal containers as pressure from generated gases may result in container rupture. Wash the spillage area clean with liquid decontaminant. Test atmosphere for MDI. Neutralize small spillages with decontaminant. Remove and properly dispose of residues (see section 13). Notify applicable government authorities if release is reportable. The CERCLA for 4,4-MDI is 5,000 lbs. (see CERCLA information in section 15).

7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and
	processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe



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	vapor or mist. Do no ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed. Keep away from moisture. Due to reaction with water producing CO2 gas, a hazardous build-up of pressure may result if contaminated containers are resealed. Do not reseal contaminated containers. Uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket. Do not store in containers made of copper, copper alloys or galvanized surfaces.
Safe storage temperature	60 - 100° F

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8. Exposure Controls / Personal Protection

Exposure Limits

CAS Number	Component	Value type	Limit / Standard	Notes	Source
101-68-8	4,4'-Diphenylmethane Diisocyanate	ŤŴA	0.005 ppm		ACGIH
101-68-8	4,4'-Diphenylmethane Diisocyanate	CLV	0.02 ppm, 0.2 mg/m3		OSHA Z1
117-81-7	Di-(2-ethylhexyl) phalate	TWA	5.00 mg/m3		ACGIH
117-81-7	Di-(2-ethylhexyl) phalate	TWA	5.00 mg/m3		NIOSH
117-81-7	Di-(2-ethylhexyl) phalate	PEL	5.00 mg/m3		OSHA Z1

Engineering Controls Personal Protection Eyes Skin	Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to publications such as the ACGIH current edition of 'Industrial Ventilation, a manual of Recommended Practice.' Chemical safety goggles. If there is a potential for splashing, use a full face shield. Protective clothing should be selected and used in accordance with 'Guidelines for the Selection of Chemical Protective Clothing' published by ACGIH.
Respiratory Hands	When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive pressure, supplied-air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and a HEPA (P100) particulate filter may be used under certain conditions when a cartridge change-out schedule has been developed in accordance with OSHA respiratory protection standard (29 CFR 1910.134). Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products. Nitrile rubber has shown good results. Thin latex or vinyl disposable gloves should be avoided. Consult with producers of protective



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Other Protection Consult your supervisor or S.O.P. for special handling instructions.

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9. Physical and Chemical Properties

General Information	
Physical state	Liquid
Color	Black
Odor	No distinct odor
Odor Threshold	Not available
pH	Not available
Boiling point	No data available
Melting point	Not available
Flash point	> 397 °F PMCC
Explosive properties	Non-explosive in the presence of the following materials or conditions: Open flames,
	sparks and static discharge and shocks and mechanical impacts.
Auto-ignition temperature	No data available
Evaporation Rate	
Solubility	Reacts slowly with water releasing carbon dioxide gas
Partition Coefficient	No data available
Decomposition temperature	No data available
Relative density	1.06
Vapor pressure	0.00016 mm Hg @ 77 F
Vapor density	No data available
Dynamic viscosity	1200 cps
VOC content	No VOC components

10. Stability and Reactivity

Stability and reactivity	Stable at room temperature. Reaction with water (moisture) produces CO2 gas. Exothermic reaction with materials containing active hydrogen groups. This product is insoluble with water and moisture laden air. It will react with water slowly at the interface creating a solid water-insoluble layer of polyurea and liberating carbon dioxide gas.
Conditions of instability	Avoid high temperatures.
Incompatibility with various substances	Water, alcohols, amines, bases and acids.
Hazardous polymerization	Polymerization may occur with incompatible reactants, especially strong bases (alkalies, tertiary amines, metal salts), water.
Hazardous decomposition products	Combustion products may include: carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), hydrocarbons and other undetermined components.

11. Toxicological Information

No product specific toxicological information is available. Data obtained on components are summarized below.

Component	
01-68-8	4,4'-Diphenylmethane Diisocyanate (MDI)
9016-87-9	Polymeric Diphenylmethane Diisocyanate (pMDI
Likely routes of exposure	Skin contact, inhalation, eye contact
Acute Toxicity	Inhalation: At room temperature vapors are expected to be minimal due to the low vapor pressure (ability to evaporate) of both MDI and pMDI. MDI vapors or mists above the TLV or PEL can result in irritation of the respiratory tract (nose, throat, lungs). Symptoms include runny nose, shortness of breath, coughing or wheezing, chest tightness or difficulty breathing. Oral: Low toxicity if swallowed, may irritate the digestive system if large amounts are swallowed. Oral: LD50: rat, > 2000 mg/kg



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Inhalation: LC50: rat, 2 mg/l, aerosol Dermal: LD50: rabbit, > 9400 mg/kg Repeated exposure may cause allergic type reactions including rash, itching, irritation and Skin Corrosion redness. Skin contact is unlikely to result in absorption of significant amounts. Cured material Skin Irritation can be difficult to remove. Eye Damage Causes eve irritation, swelling and redness, May cause temporary corneal injury. Eye Irritation Draize test, rabbit, result: irritation Respiratory or Respiratory Sensitizer: Concentrations above the TLV or PEL can cause allergic symptoms Skin sensitization including asthma attack, bronchitis, bronchial spasms, and pulmonary edema. These symptoms can be delayed for several hours after exposure. These effects are usually reversible although decreased lung function has been associated with overexposure to isocyanates. Persons with a preexisting sensitivity to isocyanates may react to levels below the TLV or PEL. Use of this product in a manner consistent with the recommended application procedures and current exposure guidelines is expected to protect against these effects reported for MDI. Skin Sensitization: Some animal research studies have associated prolonged or repeated skin contact with skin sensitization and a possible role in respiratory isocyanate sensitization. Buehler test, guinea pig, result: sensitizing Polymeric MDI has been classified as IARC Group 3. There is inadequate evidence to describe Carcinogenicity its carcinogenetic potential. Chronic exposure studies involving animals at very high exposure levels (6 mg/kg for lifetime) resulted in tumor formation. Polymeric MDI is not considered a human carcinogen as defined by the IARC, NTP, or OSHA. Germ Cell No effects observed Mutagenicity Reproductive toxicity No effects observed Target Organ No data available Systematic Toxicity -Single Exposure Target Organ Irritation to lungs and nasal cavity. Tissue injury in the upper respiratory tract has been Systematic Toxicity observed in laboratory animals repeatedly exposed to excessive levels of pMDI / MDI aerosol. Repeated Exposure No data available **Aspiration Toxicity** 117-81-7 Di-(2-ethylhexyl) phalate Likely routes of Skin contact, Inhalation, eve contact exposure Oral: LD50: >5000 mg/kg (rat) Acute Toxicity Dermal: LD50: > 20000 mg/kg (rabbit) Inhalation: LC50: >10.62 mg/l (rat, 4h) No deaths from exposure to nearly saturated vapor Skin Corrosion Rabbit, 24h, slight irritation Skin Irritation Eve Damage Rabbit, none Eve Irritation Guinea pig, none Respiratory or Skin sensitization IARC 2B:Possibly carcinogenic to humans Carcinogenicity NTP: R - Reasonably anticipated to be a carcinogen NIOSH: Ca - Potential occupational carcinogen: No data available Germ Cell Mutagenicity May damage fertility or the unborn child. Some animal studies (rats, both male and female), at Reproductive toxicity high oral dose levels (6000 and 12000 ppm) caused toxicity in pregnant animals as well as produced some minor abnormalities in their offspring. High oral doses in male animals resulted



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	in reduced fertility. Liver tumors were also produced at these levels. It should be noted that high doses to humans handling this material is not expected since oral consumption is not a likely route of exposure.
Target Organ Systematic Toxicity – Single Exposure	No data available
Target Organ Systematic Toxicity – Repeated Exposure	No data available
Aspiration Toxicity	No data available

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12. Ecological Information

No product specific ecological information is available. Data obtained on components are summarized below.

Component	
01-68-8	4,4'-Diphenylmethane Diisocyanate (MDI)
9016-87-9	Polymeric Diphenylmethane Diisocyanate (pMDI)
Persistence and degradability	In aquatic environments these components react with water to create carbon dioxide gas and insoluble polyureas. In atmospheric environments material has a short tropospheric half-life. Not degradable. Not considered persistent.
Mobility	No data available
Bioaccumulation	Not considered to be bio-accumulative
Ecotoxicity effects	No considered to be toxic
Aquatic toxicity	Not considered dangerous to aquatic species

13. Disposal Considerations

13. Dispusai Cuii	
Waste disposal	The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Contaminated containers should be emptied. Do not reuse containers. Do not burn or use a cutting torch on empty containers.
U.S. EPA RCRA	EPA resource recovery act (RCRA) composite list of hazardous wastes and Appendix VIII Hazardous constituents (40 CFR 261): Under RCRA, it is the responsibility of the person who generates a solid waste to determine if that waste is a hazardous waste as defined by 40 CFR 261.2.

14. Transportation Information

Regulatory Information	UN Number	Proper Shipping Name	Class	PG*	Label	Additional information
DOT Classification	Not regulated					
TDG Classification	Not regulated					
IMDG Class	Not regulated					
IATA-DGR Class	Not regulated					

15. Regulatory Information

United States Federal Regulations	
U.S. Toxic Substances Control Act (TSCA 8b)	All components are listed or exempted.
CERCLA – reportable quantity, calculated	5,000 lbs. 101-68-84, MDI
·	5,000 lbs. 9016-87-9, Polymeric MDI



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SARA 304 Extremely Hazardous Substances RQ	Does not contain any components subject to 304 EHS RQ
SARA 311 / 312	Acute health hazard
	Chronic health hazard
EPA Community Right To Know Act (EPCRA) SARA Title	101-68-84, 4-Diphenylmethane Diisocyanate
III Section 313, components requiring notification.	9016-87-9, Polymeric Diphenylmethane Diisocyanate
Clean Air Act, Components listed as HAP	None
Clean Water Act, Section 311, Table 116.4A	None
Clean Water Act, Section 311, Table 117.3	None
Clean Water Act, Section 307	None
California Prop 65	None
DRC Conflict materials	Based upon information from our suppliers this product is "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule.

16. Other Information

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERIMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Disclaimer:

The data set forth in this sheet is based on information provided by the suppliers of raw materials and chemicals used in the manufacture of the aforementioned product. Roadware Incorporated makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.



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1, PRODUCT AND COMPANY IDENTIFICATION

: Flexible Cement II - Part B **Product Name**

Part of polymer concrete repair system Recommended use

Company Roadware Incorporated Address 381 Bridgepoint Way

South Saint Paul, MN 55075

651-457-6122 Phone

Emergency Telephone Numbers Chem-Tel: 800-255-3924

Restrictions on use For professional or industrial use only

2. HAZARDS IDENTIFICATION

GHS Classification

None

Hazard Statements

None

Precautionary statements:

None

Response statements:

None

Section 3. Composition / Information on Ingredients

This product is a mixture.

Hazardous Components

CAS Number	Chemical Name	Concentration
None		

Specific chemical identities and exact percentages may have been withheld as a trade secret or CBI in compliance with 29 CFR 1910.1200 (i).

4 First Aid Measures

General Advice	Take proper precautions to ensure your own health and safety before attempting rescue or administering first aid. Wear protective gloves. See section 8 for recommendations.
Skin Contact	After contact with skin, wash with plenty of soap and water. If irritation or rash develops, seek medical advice.
Eye Contact	Immediately flush eye(s) with plenty of water. Remove contact lenses. If eye irritation persists get medical advise/attention.
Inhalation	If inhaled, move affected persons to fresh air. If not breathing, give artificial respiration. Get medical attention immediately. Treatment is symptomatic for primary irritation. If breathing is labored, qualified personnel should administer oxygen.
Ingestion	If swallowed, Wash out mouth with water. Drink 1-2 glasses of water but DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention if feeling unwell.
Most important symptoms and	No relevant information



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effects (acute and	
delayed)	
Notes to Physician	Symptomatic and supportive therapy as needed.

5. Firefighting Measures

Suitable Extinguishing Media	Dry chemical, Carbon Dioxide (CO2), alcohol resistant foam, water fog.
Not Suitable Extinguishing Media	Avoid high volume water jet, may spread fire.
Special exposure hazards	In a fire or if heated, a pressure increase will occur and the container may burst. Produces oxides of carbon and nitrogen. Combustion products may be toxic and/or irritating. Avoid smoke.
Special protective equipment for fire-fighters	Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.
Special remarks on explosion hazards	None

6. Accidental Release Measures

Personal protection	Immediately contact emergency personnel. Isolate the area. Keep upwind avoiding inhalation of vapors. Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Use suitable protective equipment (see section 8).			
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.			
Methods for cleaning up	Contain and adsorb large spillages onto an inert, non-flammable adsorbent carrier (such as earth, vermiculite or sand). Shovel into open-top drums or plastic bags for further decontamination if necessary. Dispose of in accordance with federal, state and local regulations			

7. Handling and Storage

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Keep container in a cool, well-ventilated area. Keep container tightly closed.
60 - 100° F

8. Exposure Controls / Personal Protection

Exposure Limits

CAS Number	Component	Value type	Limit / Standard	Notes	Source
None	None	None	None	None	None

Preventive Measures	Conditions of use, adequacy of engineering or other control measures and actual exposures
	will dictate the need for specific protective devices at your workplace.
Engineering Controls	Maintain adequate ventilation when using. Use local exhaust to when necessary.
Personal Protection	



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Eyes Chemical safety goggles. If there is a potential for splashing, use a full face shield.

Skin Protective clothing should be selected and used in accordance with 'Guidelines for the

Protective clothing should be selected and used in accordance with Guidelines for the Selection of Chamileol Brotostive Clothing' published by ACCIL

Selection of Chemical Protective Clothing' published by ACGIH.

Respiratory Maintain adequate ventilation.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn

at all times when handling chemical products. Nitrile rubber has shown good results. Thin latex or vinyl disposable gloves should be avoided. Consult with producers of protective

gloves for suitability.

Other Protection None required

9. Physical and Chemical Properties

3. Physical and Offennical Pio	VOI 1100
General Information	
Physical state	Liquid
Color	White
Odor	Not determined
Odor Threshold	Not available
pH	Not available
Boiling point	Not available
Melting point	Not available
Flash point	
Explosive properties	
	sparks, static discharge, shocks and mechanical impacts.
Auto-ignition temperature	Not self igniting
Evaporation Rate	Not available
Relative density	1.05
Solubility	No data available
Partition Coefficient	No data available
Decomposition temperature	No data available
Vapor pressure	Not available
Vapor density	Not Available
Viscosity	2000 cps
VOC content	0.0%

10. Stability and Reactivity

Stability and reactivity	Stable at room temperature.
Conditions of instability	Avoid high temperatures.
Incompatibility with various substances	Strong oxidizing agents, acids, bases and unintended isocyanates .
Hazardous polymerization	Polymerization may occur with incompatible reactants, especially strong oxidizers.
Hazardous decomposition products	Combustion products may include: carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), hydrocarbons and other undetermined components.

11. Toxicological Information

Likely routes of	Skin contact, inhalation, eye contact
exposure:	
Acute Toxicity	Inhalation: Minimally toxic.
-	Oral: Minimally toxic. May cause gastro-intestinal pain, nausea, and vomiting.
	Dermal: Minimally toxic. May cause dryness leading to itching and dermatitis.
Skin Corrosion	Causes skin irritation, redness, dryness or roughness. Not considered a skin corrosive
Skin Irritation	
Eye Damage	Irritating to eyes. Not expected to cause serious eye damage
Eye Irritation	
Respiratory or	Not expected to be a skin or respiratory sensitizer.
Skin sensitization	



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Carcinogenicity	Not considered a human carcinogen as defined by the IARC, NTP, OSHA.
Germ Cell	Negative
Mutagenicity	
Reproductive toxicity	No reproductive effects. No teratogenic effects on fetal development.
Target Organ	Not expected to cause organ damage from exposure
Systematic Toxicity -	
Single Exposure	
Target Organ	Not expected to cause organ damage from prolonged or repeated exposure.
Systematic Toxicity -	
Repeated Exposure	
Aspiration Toxicity	Not considered to be an aspiration hazard.

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12. Ecological Information

No product specific ecological information is available. Data obtained on components are summarized below.

Component		
Persistence and degradability	No data available	
Mobility	No data available	
Bioaccumulation	No data available	
Ecotoxicity effects	No data available	
Aquatic toxicity	No data available	

13. Disposal Considerations

13. Dispusai Cuit	siderations — — — — — — — — — — — — — — — — — — —
Waste disposal	The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Contaminated containers should be emptied. Do not reuse containers. Do not burn or use a cutting torch on empty containers.
U.S. EPA RCRA	EPA resource recovery act (RCRA) composite list of hazardous wastes and Appendix VIII Hazardous constituents (40 CFR 261): Under RCRA, it is the responsibility of the person who generates a solid waste to determine if that waste is a hazardous waste as defined by 40 CFR 261.2.

14. Transportation Information

Regulatory Information	UN Number	Proper Shipping Name	Class	PG*	Label	Additional information
DOT Classification	Not regulated					
TDG Classification	Not regulated					
IMDG Class	Not regulated					
IATA-DGR Class	Not regulated					

15. Regulatory Information

15. Regulatory information	
United States Federal Regulations	
U.S. Toxic Substances Control Act (TSCA 8b)	All components are listed or exempted.
CERCLA – reportable quantity, calculated	Does not contain any components subject to reporting
SARA 304 Extremely Hazardous Substances RQ	Does not contain any components subject to reporting
SARA 311 / 312	Does not contain any listed components
EPA Community Right To Know Act (EPCRA) SARA Title	Does not contain any components subject to reporting
III Section 313, components requiring notification.	
Clean Air Act, Components listed as HAP	Does not contain any components subject to reporting
Clean Water Act, Section 311, Table 116.4A	Does not contain any components subject to reporting
Clean Water Act, Section 311, Table 117.3	Does not contain any components subject to reporting



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Clean Water Act, Section 307	Does not contain any components subject to reporting
California Prop 65	Does not contain any listed components
DRC Conflict materials	Based upon information from our suppliers this product is "DRC Conflict Free" as defined by the SEC Conflict
	Minerals Final Rule.

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Canadian Regulations	
WHMIS (Canada)	Does not contain any listed components
CEPA (DSL)	Canada inventory: All components are listed or exempted.

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Disclaimer:

The data set forth in this sheet is based on information provided by the suppliers of raw materials and chemicals used in the manufacture of the aforementioned product. Roadware Incorporated makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.