



Section 1: Identification of the Substance/Mixture and of the Company Undertaking

Product identifier used on the label:

Product Name: Impact Toughened Structural Adhesive

Other means of identification:

Product Codes: 63642506427

Trade Name: Impact Toughened Structural Adhesive

Recommended use of the chemical and restrictions on use:

Product Uses: Recommended use : Adhesives

Chemical manufacturer address and telephone number:

Manufacturer Name: Saint-Gobain Abrasives, Inc.

Manufacturer Address 1: 1 New Bond Street

Manufacturer City: Worcester

Manufacturer State: MA

Manufacturer Zip Code: 01615

Manufacturer Country: USA

Manufacturer Web: www.Nortonabrasives.com

Business Phone: 508-795-5000

Distributor: Saint-Gobain Canada, Inc.

Distributor Address 1: 28 Albert St, W.

Distributor City: Plattsville

Distributor State: ON

Distributor ZipCode: N0J 1S0

Distributor Country: Canada

Distributor Web: www.Nortonabrasives.com

Distributor Phone: 519-684-7441

Emergency phone number:

Emergency Phone: 508-795-5000

Creation Date: 2019-01-09

Revision Date: 2019-01-25 18:32:00

Notes from Section 1: CHEMTREC:
For emergencies in the US, call CHEMTREC: 800-424-9300
For emergencies in Canada, call CHEMTREC: 800-424-9300

Section 2: Hazards Identification

Classification of the chemical in accordance with CFR 1910.1200(d)(f):



Signal Words: Danger

Product:

GHS Class: GHS Classification
 Skin corrosion : Category 1
 Serious eye damage : Category 1
 Skin sensitization : Category 1
 Reproductive toxicity : Category 2
 Specific target organ systemic toxicity - repeated exposure (Inhalation): Category 1 (Respiratory Tract)

Hazard Statements: H314 - Causes severe skin burns and eye damage.
 H317 - May cause an allergic skin reaction.
 H361 - Suspected of damaging fertility. Suspected of damaging the unborn child.
 H372 - Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P264 - Wash skin thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P272 - Contaminated work clothing must not be allowed out of the workplace.
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 P353 - Rinse skin with water/shower.
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 - Immediately call a POISON CENTER/doctor.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 - IF exposed or concerned: Get medical advice/ attention
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P363 - Wash contaminated clothing before reuse.
 P405 - Store locked up.
 P501 - Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified that have been identified during the classification process:

Section 3: Composition/Information on Ingredients

Mixtures:

Ingredient Name	CAS Number	Ingredient Percent	EC Number	Comments
PART A : ALKYLPHENOL	254504001-6318	Concentration (%) : 2.34		
PART A : EPOXY RESIN C	25068-38-6	Concentration (%) : 52.50		
PART A :BISPHENOL A, DIGLYCIDYL ETHER POLYMER	25068-38-6	Concentration (%) : 13.30		
PART A :TALC	14807-96-6	Concentration (%) : 4.00		
PART A :3-(TRIMETHOXSILYL)PROPYL GLYCIDYL ETHER	2530-83-8	Concentration (%) :2.00		
PART B :Amine terminated polymer	254504001-6317	Concentration (%) :>= 10.00 - < 15.00		
PART B :ALKYLAMINE	254504001-6322	Concentration (%) :>= 1.50 - < 5.00		
PART B :DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER	4246-51-9	Concentration (%) :20.00		
PART B :POLYOXYPROPYLENEDIAMINE	9046-10-0	Concentration (%) :20.00		

PART B :POLY(OXY(METHYL-1,2- ETHANEDIYL)), .ALPHA.,.ALPHA.	64852-22-8	Concentration (%) :20.00		
PART B :2-PROPENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C	68683-29-4	Concentration (%) :9.50		
PART B :2,4,6- TRIS(DIMETHYLAMINOMETHYL)PHENOL	90-72-2	Concentration (%) :5.3999		
PART B :TALC	14807-96-6	Concentration (%) :5.00		
PART B :POLYPROPYLENE GLYCOL	25322-69-4	Concentration (%) :1.40		

Product:**Comments:****PART A**

The identity of one or more component(s) is being withheld under business confidentiality.

PART B

Substance / Mixture : Mixture

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

PART B :2-PROPENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:**Comments:**

Classification

Skin Irrit. 2; H315

Eye Irrit. 2A; H319

Skin Sens. 1; H317

PART B :POLYPROPYLENE GLYCOL:**Comments:**

Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

PART B :ALKYLAMINE:**Comments:**

Classification

Acute Tox. 4; H302

Acute Tox. 3; H311

Skin Corr. 1; H314

Eye Dam. 1; H318

Skin Sens. 1; H317

Repr. 2; H361fd

STOT RE 1; H372

PART B :2,4,6- TRIS(DIMETHYLAMINOMETHYL)PHENOL:**Comments:**

Classification

Skin Corr. 1C; H314

Eye Dam. 1; H318

PART A : EPOXY RESIN C:**Comments:**

Classification

Skin Sens. 1B; H317

PART A : ALKYLPHENOL:**Comments:**

Classification

Skin Corr. 1B; H314

Eye Dam. 1; H318

Skin Sens. 1B; H317

PART B :DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:**Comments:**

Classification

Skin Corr. 1; H314

Eye Dam. 1; H318

Skin Sens. 1; H317

PART A :TALC:

Comments: Classification
This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

PART B :POLYOXYPROPYLENEDIAMINE:

Comments: Classification
Skin Corr. 1C; H314
Eye Dam. 1; H318

PART A :3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Comments: Classification
Eye Dam. 1; H318

PART A :BISPHENOL A, DIGLYCIDYL ETHER POLYMER:

Comments: Classification
Skin Irrit. 2; H315
Eye Irrit. 2A; H319
Skin Sens. 1; H317

PART B :TALC:

Comments: Classification
This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012)

PART B :Amine terminated polymer:

Comments: Classification
Skin Irrit. 2; H315
Skin Sens. 1; H317

PART B :POLY[OXY(METHYL-1,2- ETHANEDIYL)], .ALPHA.,.ALPHA.:

Comments: Classification
Skin Irrit. 2; H315
Eye Dam. 1; H318

Section 4: First Aid Measures

Description of necessary measures:

Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

Skin Contact: Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.

Inhalation: Move to fresh air.
If breathed in, move person into fresh air.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

Ingestion: If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed:

Indication of immediate medical attention and special treatment needed

Note To Physicians: No hazards which require special first aid measures.

Notes from Section 4: General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Most important symptoms and effects, both acute and delayed: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Cough
Drowsiness
Shortness of breath
Difficulty in breathing
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of damaging fertility. Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure if inhaled.
Causes severe burns.

Section 5: Firefighting Measures

Suitable and unsuitable extinguishing media

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable Media: High volume water jet

Specific hazards arising from the chemical

Hazardous Combustion Products: carbon dioxide and carbon monoxide
Hydrocarbons
phenols
Nitrogen oxides (NO_x)
Ammonia
formaldehyde
nitrogen oxides (NO_x)
sulfur oxides
acid vapors
carboxylic acids
Methanol
silicone polymers
silicon dioxide
various hydrocarbons
Hydrogen
organic compounds

Special protective equipment and precautions for fire-fighters

Fire Fighting Instructions:	Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
Fire Fighting Equipment:	Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
NFPA Health:	3
NFPA Fire:	1
NFPA Reactivity:	0
Notes from Section 5:	Specific extinguishing methods : Product is compatible with standard fire-fighting agents. Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personnel Precautions:	Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
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Methods and materials for containment and cleaning up

Methods for Containment:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Methods for Cleanup:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Environmental precautions

Environmental Precautions:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Notes from Section 6:	Other information : Comply with all applicable federal, state, and local regulations.

Section 7: Handling and Storage

Precautions for safe handling

Handling:	Do not breathe vapours/dust. Do not smoke. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
Hygiene Practices:	Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location. When using do not smoke.

Conditions for safe storage, including any incompatibilities

Storage: Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines**Exposure Guidelines - Ingredient Based:****PART A :TALC:**

TWA: 20 Million particles per cubic foot Dust OSHA Z-3

TWA: 2 mg/m3 respirable dust fraction OSHA P0

TWA: 2 mg/m3 Respirable NIOSH REL

PEL: 2 mg/m3 Respirable dust CAL PEL

TWA: 0.1 fibres per cubic centimeter ACGIH

TWA: 2 mg/m3 Respirable fraction ACGIH

PART B :TALC:

TWA: 20 Million particles per cubic foot Dust OSHA Z-3

TWA: 2 mg/m3 respirable dust fraction OSHA P0

TWA: 2 mg/m3 Respirable NIOSH REL

PEL: 2 mg/m3 Respirable dust CAL PEL

TWA: 0.1 fibres per cubic centimeter ACGIH

TWA: 2 mg/m3 Respirable fraction ACGIH

PART B :POLYPROPYLENE GLYCOL:

TWA: 10 mg/m3 aerosol US WEEL

Appropriate engineering controls

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Individual protection measures

Eye Protection: Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Skin Protection: Skin and body protection : Wear as appropriate: Impervious clothing
Chemical resistant apron
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
Wear resistant gloves (consult your safety equipment supplier).

Hand Protection: Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Hygiene Practices: Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
Ensure that eyewash stations and safety showers are close to the workstation location.
When using do not smoke.

Section 9: Physical and Chemical Properties

Physical and chemical properties

Physical State: PART A: liquid
Appearance : paste
PART B:liquid

Color: PART A:dark violet
PART B:tan

Odor: PART A:very faint
PART B:No data available

pH: PART A:Not applicable
PART B:

Melting Temperature: PART A:No data available
PART B:No data available

Boiling Temperature: PART A:No data available
PART B:No data available

Flash Point: PART A:> 220 °F
PART B:> 104 °C

Flash Point Method: PART A:closed cup
PART B:closed cup

Ignition Temperature: PART A:No data available
PART B:No data available

Lower Flammable Limit: PART A:No data available
PART B:No data available

Upper Flammable Limit: PART A:No data available
PART B:No data available

Decomposition Temperature: PART A:Thermal decomposition : No data available
PART B:Thermal decomposition : No data available

Vapor Pressure: PART A:No data available
PART B:No data available

Vapor Density: PART A:Relative vapour density : No data available
PART B:Relative vapour density : No data available

Freezing Temperature: PART A:No data available
PART B:No data available

Density: PART A: No data available
Relative density : 1.16
PART B: 1.06 g/cm³ (23 °C)
Relative density : No data available

Solubility: PART A:Solubility in other solvents : No data available
PART B:Solubility in other solvents : No data available

Solubility In Water: PART A:No data available
PART B:No data available

Evaporation Rate: PART A:No data available
PART B:No data available

Viscosity:	PART A:Viscosity, kinematic : No data available PART B: Viscosity, kinematic : No data available
Odor Threshold:	PART A:No data available PART B:No data available
Octanol Water Partition Coef:	PART A:No data available PART B:No data available
Dynamic Viscosity:	PART A:No data available PART B:No data available
Oxidizing Properties:	PART A:No data available PART B:No data available

Section 10: Stability and Reactivity

Reactivity:

Reactivity:	No decomposition if stored and applied as directed. Possibility of hazardous reactions: Product will not undergo hazardous polymerization.
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Chemical Stability:

Chemical Stability:	Stable under recommended storage conditions.
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Possibility of hazardous reactions:

Conditions To Avoid:

Conditions To Avoid:	Exposure to air. Exposure to moisture
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Incompatible Materials:

Incompatible Materials:	Acids Amines Bases isocyanates Nitrogen oxides (NOx) Oxidizing agents peroxides sodium hypochlorite water Peroxides
Hazardous Decomposition Products:	Alcohols Aldehydes carbon dioxide and carbon monoxide carboxylic acids ethers formaldehyde-like Hydrocarbons Hydrogen cyanide (hydrocyanic acid) Methanol Nitrogen oxides (NOx) organic compounds phenols silicone polymers Sulphur oxides Ammonia ketones silicon dioxide various hydrocarbons

Section 11: Toxicological Information

Toxicological Information:

Product:

Acute Toxicity: Not classified based on available information.

Route of Exposure: Inhalation
Skin contact
Eye Contact
Ingestion This product is an inert plastic when fully cured, and as such, is nonhazardous. Exposure to unreacted chemicals can occur when handling the individual components in pails or when using cartridges from the time of dispensing until the mixed material has cured. The mixed material is actually curing as it is dispensed in an increasingly viscous form, making it unlikely to present an inhalation hazard. The semiviscous mixture does not flow like a liquid when dispensed, thus minimizing the possibility of accidental skin contact.

Carcinogenicity: Not classified based on available information.

Mutagenicity: Not classified based on available information.

Reproductive Toxicity: Suspected of damaging fertility. Suspected of damaging the unborn child.

Irritation: Skin corrosion/irritation
Causes severe burns.
Product:
Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye damage.

Serious eye damage/eye irritation
Causes serious eye damage.
Product:
Remarks: May cause irreversible eye damage.

Sensitization: Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

IARC Carcinogen: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP Carcinogen: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Notes from Section 11: Further information
Product:
Remarks: No data available

PART B :2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Skin Toxicity: LD50 (Rabbit): > 3 g/kg

Ingestion Toxicity: LD50 (Rat): > 15 g/kg

Irritation: Skin corrosion/irritation
Result: Irritating to skin.

Serious eye damage/eye irritation
Result: Irritating to eyes.

Sensitization: Test Type: Maximisation Test
Species: Guinea pig
Assessment: May cause sensitisation by skin contact.
Method: OECD Test Guideline 406

PART B :POLYPROPYLENE GLYCOL:

Skin Toxicity:	LD50 (Rabbit): > 3,000 mg/kg Assessment: Not classified as acutely toxic by dermalabsorption under GHS.
Ingestion Toxicity:	LD50 (Rat): > 2,000 mg/kg Assessment: Not classified as acutely toxic by ingestion under GHS.
Irritation:	Skin corrosion/irritation Result: Slight, transient irritation Serious eye damage/eye irritation Result: Slight, transient irritation

PART B :ALKYLAMINE:

Skin Toxicity:	LD50 (Rabbit): 866 mg/kg
Ingestion Toxicity:	LD50 (Rat): 2,097 mg/kg Assessment: The component/mixture is classified as acute oral toxicity, category 4.
Chronic Toxicity:	Repeated dose toxicity Species: Rat NOAEL: 152 mg/kg Application Route: Oral Method: OECD Test Guideline 422 Species: Rat NOAEL: 1,000 mg/kg Application Route: Dermal Method: OECD Test Guideline 410
Irritation:	Skin corrosion/irritation Result: Corrosive to skin Serious eye damage/eye irritation Result: Corrosive
Sensitization:	Test Type: Maximisation Test Species: Guinea pig Assessment: May cause sensitisation by skin contact. Method: OECD Test Guideline 406 Result: May cause sensitisation by skin contact.

PART B :2,4,6- TRIS(DIMETHYLAMINOMETHYL)PHENOL:

Ingestion Toxicity:	LD50 (Rat): 2,169 mg/kg Method: OECD Test Guideline 401
Irritation:	Skin corrosion/irritation Result: Corrosive after 1 to 4 hours of exposure Serious eye damage/eye irritation Result: Corrosive

PART A : EPOXY RESIN C:

Skin Toxicity:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
Ingestion Toxicity:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: No adverse effect has been observed in acute oral toxicity tests.

Mutagenicity:

Genotoxicity in vitro : Test Type: in vitro assay
 Test species: Rodent cell line
 Metabolic activation: without metabolic activation
 Result: positive

Test Type: in vitro assay
 Test species: Rodent cell line
 Metabolic activation: with metabolic activation
 Result: negative

Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
 Test species: Mouse (male)
 Application Route: Ingestion
 Result: negative

Irritation:

Skin corrosion/irritation
 Result: Slight, transient irritation

Serious eye damage/eye irritation

Result: Slight, transient irritation

Sensitization:

Test Type: Local lymph node assay
 Assessment: The product is a skin sensitiser, sub-category 1B.
 Method: OECD Test Guideline 429
 Result: The product is a skin sensitiser, sub-category 1B.

PART A : ALKYLPHENOL:**Skin Toxicity:**

LD50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 402

Ingestion Toxicity:

LD50 (Rat): > 2,000 - < 5,000 mg/kg
 Method: OECD Test Guideline 401

Mutagenicity:

Genotoxicity in vitro : Test Type: Ames test
 Test species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

Reproductive Toxicity:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments., Suspected of damaging fertility. Suspected of damaging the unborn child.

Irritation:

Skin corrosion/irritation
 Species: Rabbit
 Method: OECD Test Guideline 404
 Result: Corrosive after 3 minutes to 1 hour of exposure
 Serious eye damage/eye irritation
 Result: Corrosive

Sensitization:

Test Type: Local lymph node assay
 Species: Mouse
 Assessment: The product is a skin sensitiser, sub-category 1B.
 Method: OECD Test Guideline 429

PART B :DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

Skin Toxicity: LD50 (Rabbit): Estimated > 2,500 mg/kg
 LD50 (Rat): > 2,150 mg/kg
 Method: OECD Test Guideline 402

Ingestion Toxicity: LD50 (Rat): ca. 3,160 mg/kg

Irritation: Skin corrosion/irritation
 Result: Corrosive to skin

Serious eye damage/eye irritation
 Result: Corrosive

Sensitization: Assessment: May cause sensitisation by skin contact.

PART A :TALC:

Mutagenicity: Genotoxicity in vitro : Test Type: In vitro gene mutation study in bacteria
 Test species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Result: negative

Test Type: In vitro gene mutation study in bacteria
 Test species: Saccharomyces cerevisiae
 Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test
 Test species: Rat (male)
 Cell type: Bone marrow
 Result: negative

PART B :POLYOXYPROPYLENEDIAMINE:

Skin Toxicity: LD50 (Rabbit): 2,979 mg/kg
 Method: OECD Test Guideline 402

Ingestion Toxicity: LD50 (Rat): 2,885 mg/kg
 Method: OECD Test Guideline 401

Mutagenicity: Genotoxicity in vitro : Test Type: Ames test
 Test species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay
 Test species: Mouse
 Cell type: Bone marrow
 Method: OECD Test Guideline 474
 Result: negative

Irritation: Skin corrosion/irritation
 Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Serious eye damage/eye irritation
 Result: Corrosive

PART A :3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Skin Toxicity: LD50 (Rabbit): 4,250 mg/kg

Ingestion Toxicity: LD50 (Rat): 8,025 mg/kg
 Method: OECD Test Guideline 401

Inhalation Toxicity:	LC50 (Rat): > 5.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Mutagenicity:	Genotoxicity in vitro : Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reversemutation assay) Result: positive Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: positive Test species: Chinese hamster ovary cells Method: OECD Test Guideline 479 Result: positive Genotoxicity in vivo : Test Type: In vivo micronucleus test Test species: Mouse (male and female) Cell type: Bone marrow Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: positive
Irritation:	Skin corrosion/irritation Result: Slight, transient irritation Serious eye damage/eye irritation Result: Irreversible effects on the eye
Sensitization:	Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals.
PART A :BISPHENOL A, DIGLYCIDYL ETHER POLYMER:	
Skin Toxicity:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402
Ingestion Toxicity:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420
Irritation:	Skin corrosion/irritation Species: Rabbit Method: OECD Test Guideline 404 Result: irritating Serious eye damage/eye irritation Species: Rabbit Result: irritating Method: OECD Test Guideline 405
Sensitization:	Test Type: Local lymph node assay Species: Mouse Assessment: May cause sensitisation by skin contact. Method: OECD Test Guideline 429
ACGIH Carcinogen:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

PART B :TALC:

Ingestion Toxicity: D50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 423

Irritation: Skin corrosion/irritation
Species: reconstructed human epidermis (RhE)Result: No skin irritation

Serious eye damage/eye irritation
Species: Rabbit
Result: Slight, transient irritation
Method: OECD Test Guideline 405

Sensitization: Test Type: Maximisation TestSpecies: Guinea pigAssessment: Did not cause sensitisation on laboratory animals.Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

PART B :Amine terminated polymer:

Skin Toxicity: LD50 (Rabbit): > 3 g/kg
Remarks: Information given is based on data obtained from similar substances.

Ingestion Toxicity: LD50 (Rat): > 15.4 g/kg
Remarks: Information given is based on data obtained from similar substances.

Irritation: Skin corrosion/irritation
Result: Irritating to skin.
Remarks: Information given is based on data obtained from similar substances.

Serious eye damage/eye irritation
Result: Slight, transient irritation
Remarks: Information given is based on data obtained from similar substances.

Sensitization: Species: Guinea pig
Assessment: May cause sensitisation by skin contact.
Method: OECD Test Guideline 406

PART B :POLY[OXY(METHYL-1,2- ETHANEDIYL)], .ALPHA.,.ALPHA.:

Skin Toxicity: LD50 (Rabbit): 12,500 mg/kg

Ingestion Toxicity: LD50 (Rat): 2,690 mg/kg

Irritation: Skin corrosion/irritation
Result: Irritating to skin.

Serious eye damage/eye irritation
Result: Corrosive

Section 12: Ecological Information

Ecotoxicity:

Product:

Effect of Material On Aquatic: Ecotoxicology Assessment
Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.
Chronic aquatic toxicity : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

PART B :2-PROPENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Effect of Material On Aquatic: Toxicity to daphnia and other aquatic invertebrates: EC50 (Aquatic invertebrates): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (green algae): > 1,000 mg/l
Exposure time: 72 h

PART B :POLYPROPYLENE GLYCOL:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,700 mg/l
Exposure time: 96 h
Method: Static
Remarks: Mortality
LC50 (Menidia beryllina (Silverside)): 650 mg/l
Exposure time: 96 h
Method: Static
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

PART B :ALKYLAMINE:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,190 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 58 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >1,000 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

PART B :2,4,6- TRIS(DIMETHYLAMINOMETHYL)PHENOL:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 180 - < 240mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 84 mg/l
End point: Growth inhibition
Exposure time: 72 h

PART A : EPOXY RESIN C:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.7 mg/l
 Exposure time: 96 h
 Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 2.8 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 4.2mg/l
 Exposure time: 72 h
 Toxicity to daphnia and otheraquatic invertebrates(Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.3 mg/l
 Exposure time: 21 d
 Test Type: semi-static test
 Method: OECD Test Guideline 211

PART A : ALKYLPHENOL:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.21 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 0.64 mg/l
 Exposure time: 48 h
 Test Type: semi-static test
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 1.4 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: semi-static test
 Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.11mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: semi-static test
 Method: OECD Test Guideline 201

M-Factor (Acute aquatictoxicity): 1
 M-Factor (Chronic aquatictoxicity): 1

PART B :DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

Effect of Material On Aquatic: Toxicity to fish : LD50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l
 Exposure time: 96 h
 Test Type: static test
 Test substance: Neutralised product
 Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 218.16 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.2.

PART B :POLYOXYPROPYLENEDIAMINE:

Effect of Material On Aquatic: Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): 772 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Method: OECD Test Guideline 203
 Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 80 mg/l

Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 15 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.32mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.3.

PART A :3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 324 mg/l
 Exposure time: 48 h
 Test Type: static test
 Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 350 mg/l
 Exposure time: 96 h
 Test Type: static test
 Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia (water flea)): 100 mg/l
 Exposure time: 21 d

PART A :BISPHENOL A, DIGLYCIDYL ETHER POLYMER:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia (water flea)): 2.7 mg/l
 Exposure time: 48 h
 Test Type: static test
 Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): 9.4 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test

PART B :Amine terminated polymer:

Effect of Material On Aquatic: Toxicity to daphnia and other aquatic invertebrates: EC50 (Aquatic invertebrates): > 1,000 mg/l
 Exposure time: 48 h
 Remarks: Information given is based on data obtained from similar substances.
 Toxicity to algae : EC50 (green algae): > 1,000 mg/l
 Exposure time: 72 h
 Remarks: Information given is based on data obtained from similar substances.

PART B :POLY[OXY(METHYL-1,2- ETHANEDIYL)], .ALPHA.,.ALPHA.:

Effect of Material On Aquatic: Toxicity to fish : LC50 (Fish): 68 mg/l
 Exposure time: 96 h

Persistence and degradability:

Product:

Biodegradation: No data available

PART B :2-PROPENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Biodegradation: Biodegradability : Result: Not readily biodegradable.

PART B :POLYPROPYLENE GLYCOL:

Biodegradation: Biodegradability : Biodegradation: 65 %
Exposure time: 20 d
Method: OECD Test Guideline 301F

PART B :ALKYLAMINE:

Biodegradation: Biodegradability : aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

PART B :2,4,6- TRIS(DIMETHYLAMINOMETHYL)PHENOL:

Biodegradation: Biodegradability : Result: Not readily biodegradable.
Biodegradation: 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

PART A : EPOXY RESIN C:

Biodegradation: Biodegradability : Result: Not readily biodegradable.
Biodegradation: 5 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Biodegradation: 82 %
Exposure time: 28 d
Method: Abiotic degradation

Physico-chemical removability: Remarks: The product can be degraded by abiotic (e.g.chemical or photolytic) processes.

PART A : ALKYLPHENOL:

Biodegradation: Biodegradability : aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

PART B :DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

Biodegradation: Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 10 %
Exposure time: 60 d
Method: OECD Test Guideline 301B

PART B :POLYOXYPROPYLENEDIAMINE:

Biodegradation: Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

PART A :3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Biodegradation: Biodegradability : aerobic
Result: Not readily biodegradable.
Biodegradation: 37 %
Exposure time: 28 d
GLP: yes

PART A :BISPHENOL A, DIGLYCIDYL ETHER POLYMER:

Biodegradation: Biodegradability : aerobic
 Inoculum: activated sludge
 Result: Not readily biodegradable.
 Biodegradation: 5 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F

PART B :TALC:

Biodegradation: Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

PART B :Amine terminated polymer:

Biodegradation: Biodegradability : Result: Not readily biodegradable.

PART B :POLY[OXY(METHYL-1,2- ETHANEDIYL)], .ALPHA.,.ALPHA.:

Biodegradation: Biodegradability : Result: Not readily biodegradable.
 Biodegradation: < 5 %
 Exposure time: 28 d

Bioaccumulative potential:**Product:**

BioAccumulation: No data available

PART A :3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

BioAccumulation: Partition coefficient: noctanol/water : log Pow: Estimated 0.5 (20 °C)

PART B :ALKYLAMINE:

BioAccumulation: Bioaccumulation : Bioconcentration factor (BCF): < 7
 Method: OECD Test Guideline 305C
 Remarks: Information given is based on data obtained from similar substances.

PART B :POLY[OXY(METHYL-1,2- ETHANEDIYL)], .ALPHA.,.ALPHA.:

BioAccumulation: Partition coefficient: noctanol/water : log Pow: 1.34
 Method: OECD Test Guideline 117

Mobility in soil:**Product:**

Mobility In Environmental Media: Mobility in soil
 Components:
 No data available

Notes from Section 12: Other adverse effects
 No data available
 Product:
 Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

Section 13: Disposal Considerations**Description of waste:**

Waste Disposal:	General advice : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated Packaging:	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section 14: Transport Information

Transportation:	MX_DG Shipping Name: Amines, liquid, corrosive, n.o.s. UN Number: UN 2735 Hazard Class: 8 Packing Group: II*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID Marine pollutant yes Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.
DOT Shipping Name:	Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE)
DOT UN Number:	UN 2735
DOT Hazard Class:	8
DOT Packing Group:	II
DOT Other:	CFR_RAIL_C Shipping Name: Amines, liquid, corrosive, n.o.s. UN Number: UN 2735 Hazard Class: 8 Packing Group: II U.S. DOT - INLAND WATERWAYS Shipping Name: Amines, liquid, corrosive, n.o.s. UN Number: UN 2735 Hazard Class: 8 Packing Group: II
IMDG Shipping Name:	AMINES, LIQUID, CORROSIVE, N.O.S. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE)
IMDG UN Number:	UN 2735
IMDG Hazard Class:	8
IMDG Packing Group:	II
IMDG Other:	MARINE POLLUTANT / LTD. QTY.:MARINE POLLUTANT:(BISPHENOL AEPICHLOROH YDRIN POLYMER)
IATA Shipping Name:	Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE)
IATA UN Number:	UN 2735
IATA Hazard Class:	8
IATA Packing Group:	II

IATA Other:	<p>PASSENGER Shipping Name: Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE) UN Number: UN 2735 Hazard Class: 8 Packing Group: II</p>
Canada Shipping Name:	AMINES, LIQUID, CORROSIVE, N.O.S.
Canada UN Number:	UN 2735
Canada Hazard Class:	8
Canada Other:	<p>Packing Group: II</p> <p>TDG_RAIL_C Shipping Name: Amines, liquid, corrosive, n.o.s. UN Number: UN 2735 Hazard Class: 8 Packing Group: II</p> <p>TDG_INWT_C Shipping Name: Amines, liquid, corrosive, n.o.s. UN Number: UN 2735 Hazard Class: 8 Packing Group: II</p>

Section 15: Regulatory Information

Safety, health and environmental regulations specific for the product:

Regulatory - Product Based:

PART A :SARA 304 Extremely Hazardous Substances Reportable Quantity:

This material does not contain any components with a section 304 EHS RQ.

PART A : SARA 311/312 Hazards:

Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitisation

PART A :SARA 302:

This material does not contain any components with a section 302 EHS TPQ.

PART A : SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

PART A : California Prop 65:

WARNING! This product contains a chemical known to the State of California to cause cancer.
TALC 14807-96-6
QUARTZ / SAND 14808-60-7
ACRYLONITRILE 107-13-1
1,3, BUTADIENE 106-99-0
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
METHANOL 67-56-1
1,3, BUTADIENE 106-99-0

**PART B :EPCRA - Emergency
Planning and Community Right-to-
Know Act:**

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.
SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

PART B : SARA 311/312 Hazards:

Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitisation
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

PART B : SARA 302:

This material does not contain any components with a section 302 EHS TPQ.

PART B : SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

PART B : California Prop 65:

WARNING! This product contains a chemical known to the State of California to cause cancer.
TALC 14807-96-6
QUARTZ / SAND 14808-60-7
PROPYLENE OXIDE 75-56-9

**PART B: The components of this
product are reported in the
following inventories::**

DSL : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
AICS : Not in compliance with the inventory
ENCS : Exempt
KECI : Not in compliance with the inventory
PICCS : Not in compliance with the inventory
IECSC : Not in compliance with the inventory
TSCA : On TSCA inventory

PART B: Inventories:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**PART B: Registration: Trade
secret:**

Chemical name Identification number
Amine terminated polymer 254504001-6317
ALKYLPHENOL 254504001-6318
ALKYLAMINE 254504001-6322

Regulatory - Ingredient Based:

PART A : ALKYLPHENOL:

**PART A : EPCRA - Emergency
Planning and Community Right-to-
Know Act:**

CERCLA Reportable Quantity
Component RQ (lbs):5000
Calculated product RQ (lbs):*
*: Calculated RQ exceeds reasonably attainable upper limit.

Section 16: Additional Information

Creation Date: 2019-01-09

Revision Date: 2019-01-25 18:32:00

Author: Enviance

Notes from Section 16: Full text of H-Statements

PART A

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

PART B

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement: Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population.

ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit

P-Statement: Precautionary Statement

PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protective Equipment

STEL: Short-term exposure limit

STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value

TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC: Hazardous Materials Information Review Commission
HMIS: Hazardous Materials Identification System
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PMRA: Health Canada Pest Management Regulatory Agency
RTK: Right to Know
WHMIS: Workplace Hazardous Materials Information System

Comments from Section 16:

Combustible Liquid Class IIIB

NFPA:



Other Information:

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