

# **Safety Data Sheet**

**SDS No. 644A** 

# **Section 1 - Chemical Product and Company Identification**

**Product/Chemical Name:** Part A for Brush-On® 40, 50, 60; EZ-Mix<sup>®</sup> 40; PMC<sup>®</sup> 121-30, PMC<sup>®</sup> 744, PMC<sup>®</sup> -746, PMC<sup>®</sup> -770, PMC® -790, PMC® -844; Renew™ UR-40, UR-90; Reoflex® 20, 30,

40; UreCoat®; Vytaflex® 10, 20, 30, 40 **General Use:** Polyurethane Elastomer **Manufacturer:** Smooth-On, Inc.,

5600 Lower Macungie Rd., Macungie, PA 18062 Phone (610) 252-5800, FAX (610) 252-6200

**Emergency Contact**: Chem-Tel

Domestic: 800-255-3924 International: 813-248-0585

## Section 2 - Hazards Identification

#### Classification of the substance or mixture

Acute toxicity, oral-Category 4

Acute toxicity, inhalation-Category 4
Acute toxicity, dermal-Category 4

Skin irritation-Category 2

Eye irritation-Category 2A

Specific target organ toxicity-single exposure-Category 3 (respiratory)

Carcinogenicity-Category 2

Reproductive toxicity-Category 1B

#### Pictogram:



Signal word: Danger

#### **GHS Label elements, including precautionary statements**

Health	H302 + H312 +	Harmful if swallowed, in contact with skin or if inhaled
Hazards	H332	
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H351	Suspected of causing cancer.
	H360	May damage fertility or the unborn child.
General Precautions:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
Prevention	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
Precautions:		
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.

	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye
		protection/face protection.
Response	P301 + P312	IF SWALLOWED: Call a POISON CENTER or
Precautions:		doctor/physician if you feel unwell.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305 + P351 +	IF IN EYES: Rinse cautiously with water for several
	P338	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P322	Rinse mouth.
	P330	If skin irritation occurs: Get medical advice/attention.
	P332 + P313	If eye irritation persists: Get medical advice/attention.
	P337 + P313	Take off contaminated clothing.
	P362	Store in a well-ventilated place. Keep container tightly closed.
Storage Precautions:	P405	Store locked up.
Disposal Precautions:	P501	Dispose of contents/container to local, state and federal laws

# Hazards not otherwise classified (HNOC) or not covered by GHS - lachrymator

# Section 3 - Composition / Information on Ingredients

The following ingredients are hazardous according to OSHA criteria.

	<u> </u>	
CAS No.	Component	% by Weight
9057-91-4	Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-Ω-hydroxy, polymer with 1,3 diisocyanatomethylbenzene	> 80
68515-48-0	Diisononyl phthalate	< 25
26471-62-5	Toluene diisocyanate	< 1

## **Section 4 - First Aid Measures**

**Inhalation:** Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water.

**Ingestion:** Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

## **Section 5 - Fire-Fighting Measures**

Flammable Classification: Non-Flammable

Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

Unusual Fire or Explosion Hazards: None known.

**Fire-Fighting Instructions:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

**Further information:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

## **Section 6 - Accidental Release Measures**

## Spill /Leak procedures:

Only properly protected personnel should remain in the spill area; dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

## **Environmental precautions:**

No special environmental precautions required.

# **Section 7 - Handling and Storage**

Handling Precautions: Use good general housekeeping procedures. Wash hands after use.

**Storage Requirements:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

# **Section 8 - Exposure Controls / Personal Protection**

**Respiratory Protection:** Respiratory protection is not normally required when using this product with adequate ventilation. Should a respirator be needed, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with organic vapor cartridges.

**Hand Protection:** Should hand protection be needed, wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

**Eye Protection:** Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Other Protective Clothing/Equipment:** Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

# **Section 9 - Physical and Chemical Properties**

**Appearance :** clear yellow viscous liquid **Odor/Threshold:** sharp pungent odor

**pH:** N.A. (non-aqueous)

Melting Point/Freezing Point: N.A.

Low/High Boiling Point: N.A.

Flash Point: >270 °F

**Evaporation Rate:** Not available **Flammability:** f.p. at or above 200 °F

**UEL/LEL:** Not available

Vapor Pressure: None (Polymeric Resin)

Vapor Density (Air=1): >1

Specific Gravity (H2O=1, at 4 °C): 1.04

Water Solubility: Insoluble

Partition coefficient: Not available

**Auto-ignition temperature:** Not available **Decomposition temperature:** Not available

Viscosity: 50,000 centipoise

% Volatile: Nil

## **Section 10 - Stability and Reactivity**

**Stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur. **Chemical Incompatibilities:** Strong bases, and acids.

Hazardous Decomposition Products: Thermal oxidative decomposition can produce carbon

oxides and traces of incompletely burned carbon compounds.

# **Section 11- Toxicological Information**

Skin Corrosion/Irritation: no data Serious Eye Damage/Irritation: no data Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data

Carcinogenicity: No component of this product at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC, ACGH, NTP or OSHA.

Reproductive Toxicity: no data

Specific Target Organ Toxicity – Single Exposure: no data Specific Target Organ Toxicity – Repeated Exposure: no data

Aspiration Hazard: no data
Acute Toxicity: no data
Chronic Exposure: no data

Potential Health Effects - Miscellaneous: no data

## **Section 12 - Ecological Information**

Toxicity: no data

Persistence and Degradability: no data Bioaccumulative Potential: no data

Mobility in Soil: no data

Other Adverse Effects: no data

# **Section 13 - Disposal Considerations**

**Disposal:** Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

DOT IATA IMDG

Not Regulated Not Regulated Not Regulated

# **Section 15 - Regulatory Information**

## **United States EPA Regulations:**

**CERCLA Hazardous Substance** (40 CFR 302.4) listed specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

Chemical NameRQ% Reportable ComponentToluene Diisocyanate-100 lbs.<1.0</td>

# SARA EHS (Extremely Hazardous Substance) (40 CFR 355):

<u>Chemical Name</u> <u>CAS #</u> <u>% by Weight</u> Toluene Diisocyanate 26471-62-5 <1.0

These products contain the following chemicals that are subject to release reporting requirements under **section 313 of SARA Title III.** 

<u>Chemical Name</u> <u>CAS #</u> <u>% by Weight</u> Toluene Diisocyanate 26471-62-5 <1.0

**TSCA Inventory Status (40 CFR710):** All components of this formulation are listed in the TSCA Inventory.

<u>California Proposition 65</u>: This product contains a chemical which has been identified by the state of California to cause cancer, birth defects or other reproductive harm.

#### 16 - Other Information





Revision: 1 NFPA

Date Prepared: April 28, 2015

Glossary: ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service: Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association: IMDG-International Maritime Dangerous Goods Code: LC-Lethal Concentration: LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation: WHMIS-Workplace Hazardous Materials Information System.

**Disclaimer:** The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.





# **Safety Data Sheet**

**SDS No. 644B** 

# Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Part B for: PMC®-744

General Use: Polyurethane Elastomer

Manufacturer: Smooth-On, Inc.,

5600 Lower Macungie Rd., Macungie, PA 18062 Phone (610) 252-5800, FAX (610) 252-6200

**Emergency Contact**: Chem-Tel

Domestic: 800-255-3924 International: 813-248-0585

# **Section 2 - Hazards Identification**

#### Classification of the substance or mixture

Acute toxicity, dermal – Category 1

Acute toxicity, oral – Category 2

Acute toxicity, inhalation – Category 2 Reproductive toxicity – Category 1B

Specific Target Organ Toxicity - Category 2

Acute aquatic toxicity - Category 3

P271

P273



Signal Word: Danger

Health Hazards:	H300 + H310	Fatal if swallowed or in contact with skin
riazaras.	H330 H360 H373	Fatal if inhaled May damage fertility or the unborn child. May cause damage to organs (gastrointestinal and kidneys) through prolonged or repeated exposure.
Environmental Hazards:	H402	Harmful to aquatic life
General Precautions:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
Prevention Precautions:	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/vapours/spray.
	P262	Do not get in eyes, on skin, or on clothing.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

	P280	Wear protective gloves/protective clothing/eye
		protection/face protection.
Response	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or
Precautions:		doctor/physician.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if
		you feel unwell.
	P306 + P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.
	P363	Wash contaminated clothing before reuse.
Storage	P405	Store locked up.
Precautions:		
Disposal	P501	Dispose of contents/container according to local, state and
Precautions:		federal laws.

Hazards not otherwise classified (HNOC) or not covered by GHS – none known

# Section 3 - Composition / Information on Ingredients

The following ingredients are hazardous according to OSHA criteria:

CAS	Component	Concentration
117-81-7	Bis(2-ethylhexyl) phthalate	5% - 15%
26545-49-3	Phenylmercury neodecanoate	<0.90%

Bis(2-ethylhexyl) phthalate is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).

#### **Section 4 - First Aid Measures**

**Inhalation:** Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately. **Eye Contact:** Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water.

**Ingestion:** Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

## **Section 5 - Fire-Fighting Measures**

Flammable Classification: Non-Flammable

Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

Unusual Fire or Explosion Hazards: None known.

**Fire-Fighting Instructions:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

**Further information:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

#### Section 6 - Accidental Release Measures

**Emergency procedure:** Immediately turn off or isolate any source of ignition. Only properly protected personnel should remain in the spill area.

**Personal precautions:** Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosion proof equipment. Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**Environmental precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

**Methods and materials for containment and cleaning up:** Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

Follow applicable OSHA regulations (29 CFR 1910.120)

# **Section 7 - Handling and Storage**

Handling Precautions: Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored.

**Ventilation Requirements:** Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

**Storage Requirements:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

# **Section 8 - Exposure Controls / Personal Protection**

**Respiratory Protection:** Should a respirator be needed, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with organic vapor cartridges.

**Skin Protection:** Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

**Eye Protection:** Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Other Protective Clothing/Equipment:** Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

#### **Section 9 - Physical and Chemical Properties**

Appearance: liquid
Odor/Threshold: Mild odor
pH: N.A. (non-aqueous)

Melting Point/Freezing Point: N.A.

**Low/High Boiling Point:** N.A.

Flash Point: >300 °F

**Evaporation Rate:** Not available **Flammability:** f.p. at or above 200 °F

**UEL/LEL**: Not available

Vapor Pressure: None (Polymeric Resin)

Vapor Density (Air=1): >1

Specific Gravity (H<sub>2</sub>O=1, at 4 °C): 1.2

Water Solubility: Insoluble

Partition coefficient: Not available

**Auto-ignition temperature:** Not available **Decomposition temperature:** Not available

Viscosity: poise % Volatile: Nil

# **Section 10 - Stability and Reactivity**

**Stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur. **Chemical Incompatibilities:** Strong bases, and acids.

Hazardous Decomposition Products: Thermal oxidative decomposition can produce carbon

oxides and traces of incompletely burned carbon compounds.

# **Section 11- Toxicological Information**

Information based on calculated values from components:

Skin Corrosion/Irritation: no data Serious Eye Damage/Irritation: no data Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data

**Carcinogenicity:** 

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (mercury).

NTP: No component of this product at levels greater than or equal to 0.1% is identified

as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product at levels greater than or equal to 0.1% is identified

as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: no data

Specific Target Organ Toxicity – Single Exposure: no data Specific Target Organ Toxicity – Repeated Exposure: no data

**Aspiration Hazard:** no data **Acute Toxicity:** no data **Chronic Exposure:** no data

Potential Health Effects - Miscellaneous: no data

## Section 12 - Ecological Information

Toxicity: no data

Persistence and Degradability: no data Bioaccumulative Potential: no data

Mobility in Soil: no data

Other Adverse Effects: no data

## **Section 13 - Disposal Considerations**

**Disposal:** Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

#### **Section 14 - Transport Information**

DOT IATA IMDG

**Shipping Name:** 

Environmentally hazardous substance, liquid n.o.s. (bis(2-ethylhexyl) phthalate mixture)

UN: 3082 HC: 9 PG: III

Label: Miscellaneous

**Shipping Name:** 

Environmentally hazardous substance, liquid n.o.s. (bis(2-ethylhexyl) phthalate mixture)

UN: 3082 HC: 9 PG: III

Label: Miscellaneous

**Shipping Name:** 

Environmentally hazardous substance, liquid n.o.s. (bis(2-ethylhexyl) phthalate mixture)

UN: 3082 HC: 9 PG: III

Label: Miscellaneous

## **Section 15 - Regulatory Information**

**TSCA Inventory Status (40 CFR710):** All components of this formulation are listed in the TSCA Inventory.

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** The following is subject to reporting levels established by SARA Title III, Section 313:

7439-97-6 Mercury as part of phenylmercury neodecanoate 0.3%

SARA 311/312 Hazards: acute health hazard, chronic health hazard

<u>California Proposition 65</u>: This product contains chemicals which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.

## 16 - Other Information

НМ	IS
Н	2
F	1
R	0



Revision: 1

Date Prepared: April 28, 2015

**NFPA** 

Glossary: ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service: Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus: STEL-Short Term Exposure Limit: TCEQ-Texas Commission on Environmental Quality: TLV-Threshold Limit Value: TSCA-Toxic Substances Control Act Public Law 94-469: TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

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Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health
Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace
Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006
of the European Parliament and of the Council of 18 December 2006 (REACH).
Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and
precautionary statement(s), symbol(s) and other information are based on listed concentration of each
hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication
Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under
US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union
Directives.