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## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

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**Product ID:** .40560  
**Product Name:** DURANAMEL HIGH PERFORMANCE WATERBORNE ENAMEL - SAFETY YELLOW  
**Revision Date:** Oct 11, 2018 **Date Printed:** Oct 12, 2018  
**Version:** 3.0 **Supersedes Date:** Dec 14, 2016  
**Manufacturer's Name:** Repolite Paints, Inc.  
**Address:** 473 West 17th Street Holland, MI, US, 49423  
**Emergency Phone:** 800-535-5053  
**Information Phone Number:** 616-396-1275  
**Fax:** 616-396-9654

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## SECTION 2) HAZARDS IDENTIFICATION

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### Classification

Carcinogenicity - Category 1B  
Reproductive Toxicity - Category 2  
Skin Irritation - Category 3

### Pictograms



### Signal Word

Danger

### Hazardous Statements - Health

H350 - May cause cancer  
H361 - Suspected of damaging fertility or an unborn child.  
H316 - Causes mild skin irritation

### Precautionary Statements - General

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.

### Precautionary Statements - Prevention

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention.  
P332 + P313 - If skin irritation occurs: Get medical advice/attention.

### Precautionary Statements - Storage

P405 - Store locked up.

### Precautionary Statements - Disposal

P501 - Dispose of contents/container to disposal recycling center. 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.

**Acute toxicity of 35.3% of the mixture is unknown**

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## SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS

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CAS	Chemical Name	% By Weight
0000111-77-3	DIETHYLENE GLYCOL MONOMETHYL ETHER	0.0% - 0.3%
0000108-01-0	DIMETHYLETHANOLAMINE	0.0% - 0.3%
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	0.0% - 0.1%
0000124-68-5	2-AMINO-2-METHYL-1-PROPANOL	0.0% - 0.1%
0064742-54-7	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	0.0% - 0.1%
0000065-85-0	BENZOIC ACID	Trace
0007664-38-2	PHOSPHORIC ACID	Trace
0000108-91-8	CYCLOHEXANAMINE	Trace
0007664-41-7	AMMONIA	Trace
0002634-33-5	1,2-BENZISOTHIAZOL-3(2H)-ONE	Trace
0008052-41-3	STODDARD SOLVENT	Trace
0002682-20-4	2-METHYL-4-ISOTHIAZOLIN-3-ONE	Trace
0026172-55-4	5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	Trace

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

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## SECTION 4) FIRST-AID MEASURES

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### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell or are concerned.

### Skin Contact

Rinse/wash with lukewarm, gently flowing water (and mild soap) for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

### Eye Contact

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

If you feel unwell or if concerned: Get medical advice/attention.

### Ingestion

Rinse mouth. If you feel unwell or are concerned : Get medical advice/attention.

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## SECTION 5) FIRE-FIGHTING MEASURES

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### Suitable Extinguishing Media

Dry chemical, foam, or carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water

on the same surface is to be avoided as water destroys the foam.

### **Unsuitable Extinguishing Media**

No data available.

### **Specific Hazards in Case of Fire**

Product will not burn but may spatter if temperature exceeds the boiling point of water.  
Dried solids can burn.

### **Fire-fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### **Special Protective Actions**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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## **SECTION 6) ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedure**

Keep unnecessary people away; Do not touch or walk through spilled material. Clean up immediately. Evacuate area and ventilate.  
Flammable/combustible material.

### **Recommended Equipment**

Positive pressure, full-face piece self-contained breathing apparatus SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

### **Personal Precautions**

Avoid breathing vapor. Avoid contact with skin, eye or clothing. 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, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### **Methods and Materials for Containment and Cleaning up**

Dike area to contain spill.

Absorb spill with inert absorbent.

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## **SECTION 7) HANDLING AND STORAGE**

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### **General**

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.

### **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 Room Requirements**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. 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.  
Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this

product is used and stored.

Keep from freezing.

## SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

### Eye Protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

### 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, 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.

### Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

### Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen
AMMONIA	50	35			1			25	17	35	24	
CYCLOHEXANAMINE								10	41			A4
ETHYLENE GLYCOL MONOBUTYL ETHER	50	240			1		1	20	97			A3
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	500	2000			1							
PHOSPHORIC ACID		1			1				1		3	
STODDARD SOLVENT	500	2900			1			100	572			

Chemical Name	ACGIH Notations	ACGIH TLV Basis
AMMONIA		Eye dam; URT irr
CYCLOHEXANAMINE	A4	URT & eye irr
ETHYLENE GLYCOL MONOBUTYL ETHER	A3; BEI	Eye & URT irr
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC		
PHOSPHORIC ACID		URT, eye, & skin irr

STODDARD SOLVENT		Eye, skin, & kidney dam; nausea; CNS impair
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(C) - Ceiling limit, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, dam - Damage, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, URT - Upper respiratory tract

The information in this Section does not list components that might have relevant ACGIH Notations, ACGIH TLV Basis, OSHA TWA (ppm), OSHA TWA (mg/m3), OSHA Tables (Z1, Z2, Z3), ACGIH TWA (ppm), ACGIH TWA (mg/m3), ACGIH Carcinogen regulatory values, if they are present at less than 10%. Please contact manufacturer for more information.

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## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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### Physical and Chemical Properties

Density	8.96335 lb/gal
% Solids By Weight	36.14430%
% VOC	1.90002%
Density VOC	0.17031 lb/gal
VOC Regulatory	0.39223 lb/gal
VOC Regulatory	47.00140 g/l

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Appearance	N/A
Odor Threshold	N/A
Odor Description	N/A
pH	N/A
Water Solubility	N/A
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	N/A
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	NA
Freezing Point	32 °F
Melting Point	N/A
Low Boiling Point	212 °F
High Boiling Point	N/A
Auto Ignition Temp	N/A
Decomposition Pt	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A

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## SECTION 10) STABILITY AND REACTIVITY

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### Stability

Stable.

**Conditions to Avoid**

Prevent from freezing.

**Hazardous Reactions/Polymerization**

No data available.

**Incompatible Materials**

Strong oxidizers.

**Hazardous Decomposition Products**

Burning of dried solids may give off oxides of carbon and nitrogen.

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**SECTION 11) TOXICOLOGICAL INFORMATION**

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**Skin Corrosion/Irritation**

Prolonged contact may produce temporary reddening of skin.

Causes mild skin irritation

**Serious Eye Damage/Irritation**

Direct contact may cause eye irritation.

No Data Available

**Respiratory/Skin Sensitization**

May contain products that will irritate mucous membrane and respiratory tract.

No Data Available

**Germ Cell Mutagenicity**

No Data Available

**Carcinogenicity**

May cause cancer

**Reproductive Toxicity**

Suspected of damaging fertility or an unborn child.

**Specific Target Organ Toxicity - Single Exposure**

No Data Available

**Specific Target Organ Toxicity - Repeated Exposure**

No Data Available

**Aspiration Hazard**

No Data Available

**Acute Toxicity**

Inhalation may produce symptoms of headache and nausea in poorly ventilated areas.

No Data Available

**Potential Health Effects - Miscellaneous**

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

0007664-38-2 PHOSPHORIC ACID

Ingestion may cause any of the following: burns to mouth and stomach. Inhalation of vapor may cause any of the following: burns to respiratory system. Skin or eye contact may cause any of the following: burns.

0013463-67-7 TITANIUM DIOXIDE

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology

study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

LC50 (female rat): 450 ppm (4-hour exposure) (2)

LC50 (male rat): 486 ppm (4-hour exposure) (2)

LD50 (oral, male weanling rat): 3000 mg/kg (1)

LD50 (oral, 6-week old male rat): 2400 mg/kg (1)

LD50 (oral, yearling male rat): 560 mg/kg (1)

LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1) LD50 (oral, male mouse): 1230 mg/kg (1)

LD50 (oral, rabbit): 320 mg/kg (1)

LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

0007664-38-2 PHOSPHORIC ACID

LC50 (mouse): 25.5 mg/m3 (duration of exposure not specified) (4)

LD50 (oral, rat): 3500 mg/kg (85% aqueous solution); 4200 mg/kg (80% aqueous solution)

0007664-41-7 AMMONIA

LC50 (rat): 6900 mg/m3 (4701 ppm) (30-minute exposure) (2)

LC50 (rat): 60100 mg/m3 (40898 ppm) (5-minute exposure) (2)

LC50 (mouse): 3900 mg/m3 (2644 ppm) (30-minute exposure) (2)

LC50 (mouse): 20200 mg/m3 (13750 ppm) (5-minute exposure) (2)

LC50 (rat): 3670 ppm (4-hour exposure); cited as 7338 ppm (1-hour exposure) (2)

LC50 (mouse): 2115 ppm (4-hour exposure); cited as 4230 ppm (1-hour exposure) (17); 3370 ppm (4-hour exposure); cited as 3.31 mg/L (4766 ppm)(2-hour exposure) (1, unconfirmed)

0008052-41-3 STODDARD SOLVENT

LC50 (rat): greater than 5500 mg/m3 (880 ppm) (whole body exposure for 4 hours) (1)

LC50 (rat): greater than 8200 mg/m3 (1300 ppm) (2)

LD50 (oral, rat): greater than 5 g/kg (1)

LD50 (dermal, rabbit): greater than 3 g/kg (1)

0064742-54-7 MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC

LD50 (Rodent - rat, Oral) : >15 gm/kg , Toxic effects : Details of toxic effects not reported other than lethal dose value.

LD50(Rodent- rabbit, Administration onto the skin) : >5 gm/kg, Toxic effects : Details of toxic effects not reported other than lethal dose value.

0000108-91-8 CYCLOHEXANAMINE

LC50 (mouse): Less than or equal to 493 ppm (exposure duration not reported) (1); 264 ppm (exposure duration not reported).(2)

LC50 (rat): 1850 ppm (exposure duration not reported).(2)

Lethal concentration (rat): 8000 ppm (4-hr exposure); 6 of 6 animals

LD50 (oral, rat): 0.71 mL/kg (approx. 620 mg/kg) (undiluted) (3); 156-278 mg/kg body weight (10% cyclohexylamine in water) (4); 400-800 mg/kg body weight (5% cyclohexylamine in water).(5)

LD50 (oral, mouse): 200-400 mg/kg body weight (undiluted cyclohexylamine).(5)

LD50 (dermal, rabbit): 0.32 mL/kg (275 mg/kg) body weight (unspecified concentration).(3)

LD50 (dermal, guinea pig): approx. 860-4300 mg/kg body weight (24-hr exposure) (undiluted cyclohexylamine).(5)

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## SECTION 12) ECOLOGICAL INFORMATION

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### Bio-accumulative Potential

No data available.

0064742-54-7 MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC

Contains constituents with the potential to bioaccumulate.

### Persistence and Degradability

No data available.

### Mobility in Soil

No data available.

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

**Toxicity**

No Data Available

**Other adverse effects**

No data available.

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**SECTION 13) DISPOSAL CONSIDERATIONS**


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**Waste 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 do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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**SECTION 14) TRANSPORT INFORMATION**


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**U.S. DOT Information**

Not regulated by the US Department of Transportation.

**IMDG Information**

No data available.

**IATA Information**

No data available.

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**SECTION 15) REGULATORY INFORMATION**


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CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	43% - 71%	TSCA
0000111-77-3	DIETHYLENE GLYCOL MONOMETHYL ETHER	0.0% - 0.3%	Canada_NPRI,HAPS,SARA312,VHAPS,VOC,TSCA,CA_TAC_Carcinogen
0000108-01-0	DIMETHYLETHANOLAMINE	0.0% - 0.3%	SARA312,VOC,TSCA
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	0.0% - 0.1%	Canada_NPRI,SARA312,VOC,TSCA,CA_TAC_Carcinogen
0000124-68-5	2-AMINO-2-METHYL-1-PROPANOL	0.0% - 0.1%	SARA312,VOC,VOC_exempt,TSCA
0064742-54-7	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	0.0% - 0.1%	SARA312,VOC,TSCA
0000065-85-0	BENZOIC ACID	Trace	SARA312,TSCA
0007664-38-2	PHOSPHORIC ACID	Trace	Canada_NPRI,SARA312,TSCA



0000108-91-8	CYCLOHEXANAMINE	Trace	SARA312,VOC,TSCA
0007664-41-7	AMMONIA	Trace	Canada_NPRI,SARA312,TSCA
0002634-33-5	1,2-BENZISOTHIAZOL-3 (2H)-ONE	Trace	SARA312,TSCA
0008052-41-3	STODDARD SOLVENT	Trace	Canada_NPRI,SARA312,VOC,TSCA
0002682-20-4	2-METHYL-4- ISOTHIAZOLIN-3-ONE	Trace	SARA312,TSCA
0026172-55-4	5-CHLORO-2-METHYL-4- ISOTHIAZOLIN-3-ONE	Trace	SARA312,VOC,TSCA

The information in this Section does not list components that might have relevant CA\_Carcinogen, CA\_Prop65\_Type\_Toxicity\_Cancer - CA\_Proposition65\_Type\_Toxicity\_Cancer, CA\_TAC\_Carcinogen, Canada\_NPRI, HAPS, SARA312, TSCA, VHAPS, VOC regulatory values, if they are present at less than 10%. Please contact manufacturer for more information.

## SECTION 16) OTHER INFORMATION

### General

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; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department 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; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

### HMIS

Health	/ 1
FLAMMABILITY	0
Physical Hazard	0
Personal Protection	X

(\* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### Version 3.0:

Revision Date: Oct 11, 2018

## **DISCLAIMER**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.