

# SAFETY DATA SHEET



PRODUCT CODE: 13910, 13920

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DRI-PREP™  
PRODUCT CODE: 13910, 13920

MANUFACTURER: Garon Products Inc.  
STREET ADDRESS: PO Box 1924  
CITY, STATE, ZIP: Wall, NJ 07719-1924

INFORMATION PHONE: 800-631-5380  
EMERGENCY PHONE: Chemtrec 800-424-9300  
FAX PHONE: 732-223-2002

DATE REVISED 07/01/15

Chemical Name or Class: Dry Acid Crystals

## Section 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Chemical:

#### Hazard Class:

Acute Toxicity	3
Skin Irritation	2
Eye Irritation	2A
Chronic Aquatic Toxicity	3

### 2.2 Label Elements:

**Hazard Pictogram Labels:** Exclamation

**Signal Word:** Warning

**Hazard Statement:** Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

**Prevention:** Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

**Response:**

If Swallowed:	Immediately call a poison center/doctor. Rinse mouth.
If in Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.
If on Skin:	Wash with plenty of soap and water. If skin irritation occurs get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national, and international regulations.

### 2.3 Additional Information:

**Hazards not otherwise classified:** N/A

42.3% of the mixture consists of ingredient(s) of unknown acute toxicity.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Mixtures:

<u>Ingredient</u>	<u>CAS #</u>	<u>Wt. %</u>	<u>GHS-US Classification</u>
Sulphamidic Acid	5329-14-6	90-100	Skin Irrit. 2 Eye Irrit. 2A Aquatic Acute 3 Aquatic Chronic 3 H315, H319, H412

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The exact percentage (concentration) or chemicals has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200

## Section 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures:

- General:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- Eye:** In case of contact, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin:** In case of contact, wash off with soap and plenty of water. Consult a physician.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Ingestion:** If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most Important Symptoms and Effects, both Acute and Delayed:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or section 11.

**4.3 Indication of Any Immediate Medical Attention and Special Treatments Needed:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## Section 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media:

- Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable Extinguishing Media:** N/A

**5.2 Special Hazards Arising from the Chemical:** Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

**5.3 Special Protective Equipment and Precautions for Fire Fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

**6.2 Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and Materials for Containment/Cleanup:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. For disposal see section 13.

## Section 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

- Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities:

- Storage:** Keep container tightly closed in a dry and well-ventilated place.

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**8.1 Control Parameters:** Contains no substance with occupational exposure limit values.

### 8.2 Exposure Controls:

**Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

### 8.3 Individual Protective Measures:

#### Personal Protective Equipment:

**Eye/Face Protection:** Safety glasses with side-shields conforming to EN166 use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

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**Skin Protection:** Handles with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on Basic Physical and Chemical Properties:

<b>Appearance:</b> Solid	<b>Color:</b> White	<b>Odor:</b> N/A
<b>Odor Threshold:</b> N/A	<b>Physical State:</b> Solid	<b>pH:</b> 1.5 at 10 g/l at 20°C (68°F)
<b>Viscosity:</b> N/A	<b>Freezing Point:</b> N/A	<b>Boiling Point:</b> N/A
<b>Melting Point:</b> 215-225°C (419-437°F)	<b>Flash Point:</b> N/A	<b>Evaporation Rate:</b> N/A
<b>Lower Flammability Limit:</b> N/A	<b>Vapor Density:</b> N/A	<b>Bulk Density:</b> N/A
<b>Vapor Pressure:</b> 0.008 hPa (0.006 mmHg) at 20°C (68°F), 0.025 hPa (0.019 mmHg) at 100°C (212°F)		
<b>Relative Density:</b> 2.151 g/cm <sup>3</sup> at 35°C (77°F)	<b>Lower Explosion Limit:</b> N/A	<b>Upper Explosion Limit:</b> N/A
<b>Solubility in Water:</b> 213 g/l at 20°C (68°F) 470 g/l at 80°C (176°F)	<b>Percent Volatile, wt. %:</b> N/A	
<b>Coefficient of Water/Oil Distribution:</b> N/A	<b>Auto-ignition Temperature:</b> N/A	<b>VOC Content, wt. %:</b> 0% N/A; 0 wt., N/A
<b>Decomposition Temperature:</b> 209°C (408°F)		

### Section 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	No data available
<b>10.2 Chemical Stability:</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of Hazardous Reactions:</b>	No data available
<b>10.4 Conditions to Avoid:</b>	No data available
<b>10.5 Incompatible Materials:</b>	Strong oxidizing agents, strong bases
<b>10.6 Hazardous Decomposition Products:</b>	No data available

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects

##### Acute Toxicity:

<u>Ingredient</u>	<u>LD50- Oral rat</u>	<u>LD50-Oral mouse</u>	<u>LD50-Oral guinea pig</u>
Sulphamidic acid	3160 mg/kg	1312 mg/kg	1050 mg/kg

#### 11.2 Delayed, Immediate and Chronic Effects of Short- and Long- Term Exposure:

<b>Skin Corrosion/Irritation:</b>	Mild skin irritation
<b>Serious Eye Damage/Irritation:</b>	Moderate eye irritation
<b>Respiratory Sensitization:</b>	N/A
<b>Skin Sensitization:</b>	N/A
<b>STOT-Single Exposure:</b>	N/A
<b>Carcinogenicity:</b>	N/A
<b>Germ Cell Mutagenicity:</b>	N/A
<b>Reproductive Toxicity:</b>	N/A
<b>STOT-Repeated Exposure:</b>	N/A
<b>Aspiration Hazard:</b>	N/A

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**Other Information:** Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms and signs of poisoning are burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Inhalation may provoke the following symptoms: spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, Aspiration or inhalation may cause chemical pneumonitis.

## Section 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

**Toxicity to fish:** Static test LC50 – Pimephales Promelas (fathead minnow) - 70.3 mg/l – 96 h.

**Toxicity to daphnia and other aquatic invertebrates:** No data available.

**Toxicity to algae:** No data available.

**12.2 Persistence and Degradability:** Not readily biodegradable

**12.3 Bioaccumulative Potential:** No data available.

**12.4 Mobility in Soil:** No data available.

**12.5 Other Adverse Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

## Section 13: DIPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods:

**Disposal Method:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Other disposal recommendations:** N/A

## Section 14: TRANSPORTATION INFORMATION

**14.1 UN Number:** UN2967

**14.2 UN Proper Shipping Name:** Sulfamic Acid

**14.3 Transport Hazard Class (ES):** Not Applicable

**14.4 Packing Group:** III

**14.5 Environmental Hazards:** Not Applicable

**14.6 Transport in Bulk According to Annex II or Marpol 73/78 and the IBC Code:** Not Applicable

**14.7 Special Precautions for User:** Do not handle until all safety precautions have been read and understood

## Section 15: REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislations Specific for the Chemical:

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

**SARA 313 Components:** 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.

**SARA 311/312 Hazards:** Acute Health Hazard.

### STATE REGULATIONS:

**Massachusetts Right to Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components:** Sulphamidic acid

**New Jersey Right to Know Components:** Sulphamidic acid

**California Prop. 65:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other

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reproductive harm.

**HMIS Rating:**

Health: 2  
Flammability: 0  
Physical Hazard: 0

**NFPA- National Fire Protection Association:**

Health: 2  
Fire: 0  
Reactivity: 0

**Hazard Rating:**

0 = minimal      1 = slight    2 = moderate      3 = severe    4 = extreme

**Source Agency Carcinogen Classifications:**

**OSHA (O)**      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 OSHA.

**ACGIH (G)**      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 ACGIH.

**IARC (I)**      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 (N)**      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 NTP.

**Section 16: OTHER INFORMATION**

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PRODUCT CODE: 79102

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: TIGERCLEAN CTR  
PRODUCT CODES: 79102

MANUFACTURER: Garon Products Inc.  
STREET ADDRESS: PO Box 1924  
CITY, STATE, ZIP: Wall, NJ 07719-1924

INFORMATION PHONE: 800-631-5380  
EMERGENCY PHONE: Chemtrec 800-424-9300  
FAX PHONE: 732-223-2002

DATE REVISED: 4/15/15

Chemical Name or Class: Cleaning solution

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## SECTION 2: HAZARDS IDENTIFICATION

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### Hazard Overview

GHS Classification: Skin corrosion/irritation category 2, Serious eye irritation category 2A, Specific target organ toxicity – single exposure category 3, Acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark

### Hazard Statements:

Warning: Causes skin irritation

Warning: Causes serious eye irritation

Warning: May cause respiratory irritation

Harmful to aquatic life.

### Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash skin thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well-ventilated area.

### Response:

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P321 Specific treatment (see ... on this label).

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

### Storage:

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

### HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMIBILITY: 0 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: G

### POTENTIAL HEALTH EFFECTS

EYES: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING OR BLURRED VISION.

SKIN: MAY CAUSE IRRITATION, DEFATTING AND DERMATITIS.

INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

INHALATION: CAN CAUSE NAUSEA AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, AND HEADACHE.

### HEALTH HAZARDS (ACUTE AND CHRONIC):

REPEATED CONTACT TO SKIN MAY CAUSE DEFATTING OR DRYNESS OF SKIN OR OTHER SIMILAR CONDITIONS. OVER-EXPOSURE TO THIS MATERIAL CAN CAUSE CARDIAC ABNORMALITIES, ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE OR EYE DAMAGE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

CARCINOGENICITY

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OSHA: NO            NTP: NO            IARC: NO

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
NONYLPHENOXYPOLYETHOXYETHANOL	68412-54-4	NONE	NONE	NONE	3-7
*N-METHYL-2-PYRROLIDONE	872-50-4	100PPM	100PPM	100PPM	4
WATER	7732-18-5	NONE	NONE	NONE	60-100
MONOCYCLIC TERPENE HYDROCARBONS	94266-47-4	30PPM(AIHA)	NONE	NONE	1-5
TRIETHANOLAMINE (ALKANOLAMINE)	102-71-6	NONE	NONE	NONE	0.1-1
C.I. Acid Blue 9	3844-45-9	NONE	NONE	NONE	0.1-1

SECTION 3 NOTES: \*Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

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## SECTION 4: FIRST AID MEASURES

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EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

SKIN: SKIN CONTACT WILL NORMALLY CAUSE NO MORE THAN IRRITATION BUT WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE CONTAMINATED CLOTHING PROPERLY.

INGESTION: DO NOT INDUCE VOMITING, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

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## SECTION 5: FIRE-FIGHTING MEASURES

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FLAMMABLE LIMITS IN AIR            UPPER: N/A  
(% by volume)                        LOWER: N/A

FLASH POINT: >200°F

METHOD USED: SETA FLASH

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO<sub>2</sub>, DRY CHEMICAL, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER CONFINED AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF FIRE OCCURS, SOLVENTS MAY PRODUCE EXCESSIVE PRESSURE. SEALED DRUMS MAY RUPTURE AND IGNITE. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND AND IGNITE BY ANY SOURCE OF IGNITION. NEVER USE A CUTTING OR WELDING TORCH NEAR CONTAINERS (EVEN EMPTY). ALL 5 GALLON AND LARGER CONTAINERS SHOULD BE GROUNDED BEFORE TRANSFERRING MATERIAL.

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## SECTION 6: RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR AND PROTECTIVE CLOTHING. REMOVE ALL SOURCES OF IGNITIONS. REMOVE EXCESS WITH VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS.

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## SECTION 7: HANDLING AND STORAGE

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. PROPERLY LABEL ALL CONTAINERS. KEEP MATERIAL AWAY FROM ALL SOURCES OF IGNITION.

OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEREOF.

WEAR APPROPRIATE SAFETY EQUIPMENT AND RESPIRATOR AT ALL TIMES WHEN VENTILATION IS NOT SUFFICIENT TO CONTROL VAPORS.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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RESPIRATORY PROTECTION:

USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. ENGINEERING OR ADMINISTRATIVE MEASURES SHOULD BE TAKEN TO REDUCE THE RISK AND EXPOSURE.

VENTILATION:

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TOXIC LEVEL VALUES.

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PROTECTIVE GLOVES:  
IMPERVIOUS GLOVES, NEOPRENE OR RUBBER.  
EYE PROTECTION:  
SPASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.  
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:  
PROVIDE NECESSARY CLOTHING AND SAFETY EQUIPMENT TO PREVENT CONTACT WITH MATERIAL.  
WORK HYGIENIC PRACTICES:  
TYPICAL HYGIENIC PRACTICES SHOULD BE EMPLOYED TO PREVENT EXPOSURE AND CONTACT TO MATERIAL.

SEE SECTION THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE AND ODOR: BLUE LIQUID WITH SOLVENT ODOR  
BOILING POINT OR RANGE: 396°F  
VAPOR DENSITY (AIR = 1): HEAVIER THAN AIR  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.0  
EVAPORATION RATE: SLOWER THAN ETHER  
SOLUBILITY IN WATER: SOLUBLE  
ODOR THRESHOLD: N/A  
pH: N/A  
MELTING POINT/FREEZING POINT: N/A  
VAPOR PRESSURE: N/A  
AUTO IGNITION TEMPERATURE: N/A  
PARTITION COEFFICIENT: N-OCTANOL/WATER: N/A  
DECOMPOSITION TEMPERATURE: N/A

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### SECTION 10: STABILITY AND REACTIVITY

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STABILITY: STABLE  
CONDITIONS TO AVOID (STABILITY):  
AVOID EXCESSIVE HEAT OR OPEN FLAMES AS WELL AS ALL SOURCES OF IGNITION SUCH AS SPARKS, HEATERS, STATIC DISCHARGES ETC..  
INCOMPATIBILITY (MATERIAL TO AVOID):  
AVOID CONTACT WITH STRONG OXIDIZING AGENTS, AND STRONG ACIDS AND BASES.  
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:  
MAY FORM TOXIC CHEMICALS, CARBON DIOXIDE, CARBON MONOXIDE AND VARIOUS HYDROCARBONS ETC..  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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### SECTION 11: TOXICOLOGICAL INFORMATION

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No data for the product itself.

Component data:

Component NONYLPHENOXYPOLYETHOXYETHANOL CAS# 68412-54-4: Acute Oral Toxicity LD50 – lethal dose 50% of test species = 3000 mg/kg (rat). Acute dermal Toxicity LD50 – lethal dose 50% test species = 4400 mg/kg (rabbit). Skin irritation – Severely irritating (rabbit). Eye irritation – Severely irritating (rabbit).

Component N-METHYL-2-PYRROLIDONE CAS# 872-50-4: Acute Oral Toxicity (LD50): 4,150 mg/kg (Rat).

Acute Dermal Toxicity (LD50): >5,000 mg/kg (Rat). Acute Inhalation Toxicity (LC50): >5.1 mg/l (4 hour) (Rat).

Eye Irritation: Moderately irritating to rabbit eye. (100%). Skin Irritation: Human experience has demonstrated severe dermatitis, e.g. blisters, cracking, edema, redness upon prolonged or repeated contact. Prolonged contact may induce defatting of skin which may result in redness and/or cracking. Irritating to rabbit skin. Sensitization: Not a sensitizer.

Mutagenicity: Non-mutagenic in various in-vitro and in-vivo assays. Reproductive/Developmental Toxicity: Reproductive/ developmental effects were observed in rats and rabbits. These effects occurred in the presence of maternal toxicity. The relevance of these findings to humans is unknown. Carcinogenicity: No increase in tumors were seen in a 2 year inhalation and a 2 year oral carcinogenicity study in rats. A dietary study in mice resulted in increased hepatocellular adenomas and carcinomas. The relevance of these findings to humans is unknown; the tumor type appears to be an adaptive response unique to the mouse. Other Information: Combined subchronic and neurotoxicity study in rats in dietary feed with concentrations of 0, 169/217, 433/565, or 1057/1344 mg/kg bw/day for 3 months resulted in a NOAEL = 169 mg/kg bw/day (females) and 217 mg/kg bw/day (males). Subacute dermal in rabbits with concentrations of 0, 413, 826 or 1653 mg/kg bw/day for 5 days/week for 4 weeks resulted in a NOAEL = 826 mg/kg bw/day (systemic). Subchronic inhalation (head-nose) in rats with concentrations of 0, 0.5, 1.0 or 3.0 mg/L for 6hrs/day, 5 days/week for 13 weeks resulted in a NOAEC = 0.5 mg/L (125ppm).

Component MONOCYCLIC TERPENE HYDROCARBONS CAS# 94266-47-4: Oral LD50 >5g/kg (rabbit). Dermal LD50 > 5g/kg (rabbit). Inhalation RD50 > 1g/kg (mice). Hazardous in case of skin contact (irritant, sensitizer), of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator), of ingestion. Sensitization: d-Limonene is not a sensitizer. Improper storage and handling can lead to oxidation. The oxidized forms of d-Limonene have been shown to be a skin sensitizer.



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Component TRIETHANOLAMINE (ALKANOLAMINE) CAS# 102-71-6: Acute oral toxicity (LD50): 2200 mg/kg [Rabbit].  
Chronic Effects on Humans: CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells.  
May cause damage to the following organs: kidneys, liver, skin.  
Other Toxic Effects on Humans: Hazardous in case of skin contact (permeator), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).  
Special Remarks on Toxicity to Animals: LD50 [Rat] - Route: Oral; Dose: 4920 ul/kg LD50 [Rabbit] - Route: Skin; Dose: >20ml/kg. Special Remarks on Chronic Effects on Humans: May cause cancer (tumorigenic) based on animal data. May affect genetic material (mutagen): cytogenic analysis (human lymphocyte) = 100 umol/L; sister chromatid exchange (human lymphocyte) = 1mmol/L. Special Remarks on other Toxic Effects on Humans:  
Acute Potential Health Effects: Skin: May cause skin irritation with burning pain, itching, and redness. May be absorbed through the skin and affect the liver, metabolism, and urinary tract. Eyes: Causes eye irritation with tearing and burning pain. May cause transient corneal injury. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May also affect behavior, sense organs, liver and urinary system. Inhalation: Inhalation of mist may cause respiratory tract irritation. May also affect the liver, blood, urinary system and cardiovascular system. Chronic Potential Health Effects: May cause liver and kidney damage. Prolonged or repeated contact may cause skin necrosis and /or ulceration of the skin.

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**SECTION 12: ECOLOGICAL INFORMATION**

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No data for the product itself.

Component data:

Component NONYLPHENOXYPOLYETHOXYETHANOL CAS# 68412-54-4: LC50 – lethal concentration 50% test species > 10 mg/l (96 hr, bluegill sunfish).

Component N-METHYL-2-PYRROLIDONE CAS# 872-50-4: Ecotoxicity: LC50=>500 mg/L 96hour (Rainbow Trout) .

EC50=>1000 mg/L 24hour (Daphnia Magna). EC50=125 mg/L 72hour (Scenedesmus Subspicatus) Bluegill (Lepomis Macrochirus) LC50 @22°C: 832 mg/l Fathead Minnow (Pimephales Promelas). LC50 @22°C: 1,072 mg/l Trout (Salmo Gairdneri). LC50 @12°C: 3,048 mg/l. Bioaccumulative Potential: Does not bioaccumulate

Component MONOCYCLIC TERPENE HYDROCARBONS CAS# 94266-47-4: Component is expected to be readily biodegradable. Product may act as an oil and cause a sheen, emulsion or sludge on or below the surface of water.

Component TRIETHANOLAMINE (ALKANOLAMINE) CAS# 102-71-6: Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

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**SECTION 13: WASTE DISPOSAL**

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WASTE DISPOSAL METHOD: DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

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**SECTION 14: TRANSPORT INFORMATION**

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DOT: Not Regulated

IMO/IMDG: Not Regulated

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**SECTION 15: REGULATORY INFORMATION**

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No data for the product itself.

Component data:

Component NONYLPHENOXYPOLYETHOXYETHANOL CAS# 68412-54-4: component is on the TSCA, Canada DSL, AICS, MITI and KECL lists.. This component contains the following ingredients regulated under California Proposition 65 (Dioxane CAS# 123-91-1 @ <0.003%) and (ethylene oxide CAS# 75-21-8 @ < 0.0005%)

Component N-METHYL-2-PYRROLIDONE CAS# 872-50-4: Component is on the TSCA, Canada DSL, ENCS, AICS, EINECS, KECL, PICCS, lists. Component is a proposition 65 chemical – developmental toxicity. Component is a Sara Title III section 313 chemical.

Component MONOCYCLIC TERPENE HYDROCARBONS CAS# 94266-47-4: Component is on the TSCA, Canada DSL, EINECS, AICS, PICCS and ENCS lists.

Component TRIETHANOLAMINE (ALKANOLAMINE) CAS# 102-71-6: Federal and State Regulations: Rhode Island RTK hazardous substances: Triethanolamine Pennsylvania RTK: Triethanolamine Minnesota: Triethanolamine Massachusetts RTK: Triethanolamine TSCA 8(b) inventory: Triethanolamine TSCA 8(d) H and S data reporting: Triethanolamine. Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC):

R36- Irritating to eyes. R40- Possible risks of irreversible effects. S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves.

S46- If swallowed, seek medical advice immediately.

Component C.I. Acid Blue 9 CAS# 3844-45-9: Federal and State Regulations: Massachusetts RTK: FD&C Blue 1 New Jersey: FD&C Blue 1 TSCA 8(b) inventory: FD&C Blue 1. Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): R33- Danger of cumulative effects. S24/25- Avoid contact with skin and eyes.

# SAFETY DATA SHEET



PRODUCT CODE: 79102

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## SECTION 16: OTHER INFORMATION

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DISCLAIMER: The information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

**N/A = Not Available**  
**See Section 1 for date of preparation**