# Safety Data Sheet

**Issue Date:** 25-Mar-2017 **Revision Date:** 29-Mar-2017 **Version** 1

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** Newington Lab Titration Waste Material

**Other means of identification**

**SDS #** HOP-001

**UN/ID No** UN2920

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Waste material and titration by-product mixture.

**Details of the supplier of the safety data sheet**

**Supplier Address**

H.O. Penn Machinery Company, Inc.
122 Noxon road
Poughkeepsie, NY 12603
Ph: 845-452-1200
www.hopenn.com

**Emergency Telephone Number**

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Physical state** Liquid

**Classification**

The classification and labeling information in this Safety Data Sheet should be viewed as provisional, as physical test data has not been performed.

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 4 |
| Acute toxicity - Inhalation (Vapors) | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Carcinogenicity | Category 1A |
| Reproductive toxicity | Category 1B |
| Specific target organ toxicity (single exposure) | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Flammable Liquids | Category 3 |

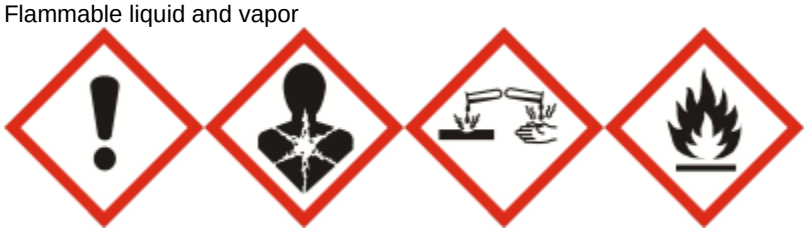
**Signal Word**

**Danger**

**Hazard statements**

Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes severe skin burns and eye damage

May cause cancer
May damage fertility or the unborn child
Causes damage to organs
Causes damage to organs through prolonged or repeated exposure
Flammable liquid and vapor



**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge

**Precautionary Statements - Response**
Immediately call a poison center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Call a poison center or doctor/physician if you feel unwell
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
Rinse mouth
Do NOT induce vomiting
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**
Store locked up
Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Other hazards**
Toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% |
|---|---|---|
| Di(ethylene glycol) ethyl ether | 111-90-0 | 28.32 |
| Chloroform | 67-66-3 | 22.4 |
| o-Xylene | 95-47-6 | 20.5 |
| Sulfur dioxide | 7446-09-5 | 6.8 |
| Imidazole | 288-32-4 | 6.8 |
| 2-Methylimidazole | 693-98-1 | 4.8 |
| 1H-Imidazole monohydriodide | 68007-08-9 | 4.2 |
| Iodine | 7553-56-2 | 2.4 |
| Methanol | 67-56-1 | 2 |
| Petroleum, Crude Oil | 8002-05-9 | 0.5 |
| n-Butyl Alcohol | 71-36-3 | 0.5 |

## 4. FIRST AID MEASURES

**First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate medical attention is required.

**Skin Contact** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a poison center or doctor/physician if you feel unwell or if skin irritation persists.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Ingestion** Do NOT induce vomiting. Rinse mouth. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Call a poison center or doctor/physician if you feel unwell.

**Most important symptoms and effects**

**Symptoms** Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes severe skin burns and eye damage.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Provide general supportive measures and treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Carbon dioxide (CO2). Dry chemical. Foam.

**Unsuitable Extinguishing Media** Discharging cylinder shape water from fire hose may lead to spread fire to the surroundings.

**Specific Hazards Arising from the Chemical**

Flammable liquid and vapor.

**Hazardous Combustion Products** Vapor may form flammable and explosive mixture with air.

**Explosion Data**
**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Remove container from fire source if possible and safe to do. Cool surrounding area with water.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate affected area. Remove all sources of ignition.

**Environmental precautions**

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.

**Methods for Clean-Up** Use only non-sparking tools. Sweep up and shovel into suitable containers for disposal. Do not flush with water. Remove contaminated soil and dispose of safely. For waste disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Use with adequate ventilation. Keep container tightly closed. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials. Protect from direct sunlight. Store locked up.

**Incompatible Materials** Oxidizing agents. Acids. Bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Chloroform<br>67-66-3 | TWA: 10 ppm | (vacated) TWA: 2 ppm<br>(vacated) TWA: 9.78 mg/m$^3$<br>Ceiling: 50 ppm<br>Ceiling: 240 mg/m$^3$ | IDLH: 500 ppm<br>STEL: 2 ppm 60 min<br>STEL: 9.78 mg/m$^3$ 60 min |
| o-Xylene | STEL: 150 ppm | - | IDLH: 900 ppm |

| | | | |
|---|---|---|---|
| 95-47-6 | TWA: 100 ppm | | TWA: 100 ppm<br>TWA: 435 mg/m$^3$<br>STEL: 150 ppm<br>STEL: 655 mg/m$^3$ |
| Sulfur dioxide<br>7446-09-5 | STEL: 0.25 ppm | TWA: 5 ppm<br>TWA: 13 mg/m$^3$<br>(vacated) TWA: 2 ppm<br>(vacated) TWA: 5 mg/m$^3$<br>(vacated) STEL: 5 ppm<br>(vacated) STEL: 15 mg/m$^3$ | IDLH: 100 ppm<br>TWA: 2 ppm<br>TWA: 5 mg/m$^3$<br>STEL: 5 ppm<br>STEL: 13 mg/m$^3$ |
| Iodine<br>7553-56-2 | STEL: 0.1 ppm aerosol and vapor<br>TWA: 0.01 ppm inhalable fraction and vapor | (vacated) Ceiling: 0.1 ppm<br>(vacated) Ceiling: 1 mg/m$^3$<br>Ceiling: 0.1 ppm<br>Ceiling: 1 mg/m$^3$ | IDLH: 2 ppm<br>Ceiling: 0.1 ppm<br>Ceiling: 1 mg/m$^3$ |
| Methanol<br>67-56-1 | STEL: 250 ppm<br>TWA: 200 ppm<br>S* | TWA: 200 ppm<br>TWA: 260 mg/m$^3$<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 260 mg/m$^3$<br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 325 mg/m$^3$<br>(vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m$^3$<br>STEL: 250 ppm<br>STEL: 325 mg/m$^3$ |
| Petroleum, Crude Oil<br>8002-05-9 | - | TWA: 500 ppm<br>TWA: 2000 mg/m$^3$<br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 1600 mg/m$^3$ | IDLH: 1100 ppm<br>Ceiling: 1800 mg/m$^3$ 15 min<br>TWA: 350 mg/m$^3$ |
| n-Butyl Alcohol<br>71-36-3 | TWA: 20 ppm | TWA: 100 ppm<br>TWA: 300 mg/m$^3$<br>(vacated) S*<br>(vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 150 mg/m$^3$ | IDLH: 1400 ppm<br>Ceiling: 50 ppm<br>Ceiling: 150 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye & face protection regulations in 29 CFR 1910.133.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** If necessary, wear a MSHA/NIOSH-approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | | |
| **Appearance** | Not determined | **Odor** | Not determined |
| **Color** | Not determined | **Odor Threshold** | Not determined |

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | Not determined | |
| **Melting Point/Freezing Point** | Not determined | |
| **Boiling Point/Boiling Range** | Not determined | |
| **Flash Point** | Not determined | |
| **Evaporation Rate** | Not determined | |
| **Flammability (Solid, Gas)** | Not determined | |
| **Flammability Limits in Air** | | |
| **Upper Flammability Limits** | Not determined | |
| **Lower Flammability Limit** | Not determined | |
| **Vapor Pressure** | Not determined | |
| **Vapor Density** | Not determined | |
| **Relative Density** | Not determined | |
| **Water Solubility** | Not determined | |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Auto-ignition Temperature** | Not determined | |
| **Decomposition Temperature** | Not determined | |
| **Kinematic Viscosity** | Not determined | |
| **Dynamic Viscosity** | Not determined | |
| **Explosive Properties** | Not determined | |
| **Oxidizing Properties** | Not determined | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Conditions to Avoid**
Incompatible Materials, Heat, flames and sparks.

**Incompatible Materials**
Oxidizing agents. Acids. Bases.

**Hazardous Decomposition Products**
Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns. Harmful in contact with skin.

**Inhalation** Harmful if inhaled.

**Ingestion** Harmful if swallowed.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Di(ethylene glycol) ethyl ether 111-90-0 | = 10502 mg/kg ( Rat ) | = 6 mL/kg ( Rat ) = 9143 mg/kg ( Rabbit ) = 4200 µL/kg ( Rabbit ) | > 5240 mg/m$^3$ ( Rat ) 4 h |
| Chloroform 67-66-3 | = 695 mg/kg ( Rat ) = 450 mg/kg ( Rat ) | > 20 g/kg ( Rabbit ) | = 47702 mg/kg ( Rat ) 4 h = 47702 mg/m$^3$ ( Rat ) 4 h |
| o-Xylene 95-47-6 | = 3608 mg/kg ( Rat ) | = 14100 mg/kg ( Rabbit ) | = 4330 ppm ( Rat ) 6 h |
| Sulfur dioxide 7446-09-5 | - | - | = 2500 ppm ( Rat ) 1 h |
| Imidazole 288-32-4 | = 220 mg/kg ( Rat ) | - | - |
| Iodine 7553-56-2 | = 14 g/kg ( Rat ) | - | - |
| Methanol 67-56-1 | = 6200 mg/kg ( Rat ) | = 15800 mg/kg ( Rabbit ) | = 64000 ppm ( Rat ) 4 h = 22500 ppm ( Rat ) 8 h |
| n-Butyl Alcohol 71-36-3 | = 700 mg/kg ( Rat ) = 790 mg/kg ( Rat ) | = 3400 mg/kg ( Rabbit ) = 3402 mg/kg ( Rabbit ) | > 8000 ppm ( Rat ) 4 h |
| Petroleum, Crude Oil 8002-05-9 | > 4300 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | - |

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** May cause cancer.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Chloroform 67-66-3 | A3 | Group 2B | Reasonably Anticipated | X |
| o-Xylene 95-47-6 | | Group 3 | | |
| Sulfur dioxide 7446-09-5 | | Group 3 | | |
| Petroleum, Crude Oil 8002-05-9 | A2 | Group 3 | Known | X |

**Legend**

***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A2 - Suspected Human Carcinogen*
*A3 - Animal Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 2B - Possibly Carcinogenic to Humans*
*Group 3 IARC components are "not classifiable as human carcinogens"*
***NTP (National Toxicology Program)***
*Known - Known Carcinogen*
*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*
***OSHA (Occupational Safety and Health Administration of the US Department of Labor)***
*X - Present*

**Reproductive toxicity** May damage fertility or the unborn child.

**STOT - single exposure** Causes damage to organs.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document** .

| | |
|---|---|
| **ATEmix (oral)** | 959.00 mg/kg |
| **ATEmix (dermal)** | 1,689.00 mg/kg |
| **ATEmix (inhalation-dust/mist)** | 1.01 mg/L |
| **ATEmix (inhalation-vapor)** | 15.00 mg/L |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Component Information**

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Di(ethylene glycol) ethyl ether 111-90-0 | | 13400: 96 h Salmo gairdneri mg/L LC50 flow-through 19100 - 23900: 96 h Lepomis macrochirus mg/L LC50 flow-through 11400 - 15700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11600 - 16700: 96 h Pimephales promelas mg/L LC50 flow-through 10000: 96 h Lepomis macrochirus mg/L LC50 static | 3940 - 4670: 48 h Daphnia magna mg/L EC50 |
| Chloroform 67-66-3 | 560: 48 h Desmodesmus subspicatus mg/L EC50 | 300: 96 h Poecilia reticulata mg/L LC50 static 71: 96 h Pimephales promelas mg/L LC50 flow-through 18: 96 h Lepomis macrochirus mg/L LC50 flow-through 18: 96 h Oncorhynchus mykiss mg/L LC50 flow-through | 29: 48 h Daphnia magna mg/L EC50 |
| o-Xylene 95-47-6 | 4.2: 192 h Pseudokirchneriella subcapitata mg/L EC50 4.7: 72 h Pseudokirchneriella subcapitata mg/L EC50 static | 11.6 - 22.4: 96 h Pimephales promelas mg/L LC50 flow-through 12: 96 h Poecilia reticulata mg/L LC50 5.59 - 11.6: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11.6 - 22.4: 96 h Lepomis macrochirus mg/L LC50 flow-through | 0.78 - 2.51: 48 h Daphnia magna mg/L EC50 Static 3.2: 48 h Daphnia magna mg/L EC50 2.61 - 5.59: 48 h Daphnia magna mg/L EC50 Flow through |
| Imidazole 288-32-4 | 82: 96 h Desmodesmus subspicatus mg/L EC50 130: 72 h Desmodesmus subspicatus mg/L EC50 | 280: 48 h Leuciscus idus mg/L LC50 static | 341.5: 48 h Daphnia magna mg/L EC50 |
| 2-Methylimidazole 693-98-1 | | 267 - 307: 96 h Pimephales promelas mg/L LC50 flow-through | |
| Methanol 67-56-1 | | 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through | |
| Petroleum, Crude Oil 8002-05-9 | | 258: 96 h Salmo gairdneri mg/L LC50 static | 0.26: 48 h Daphnia magna mg/L EC50 Static 36: 24 h Daphnia magna mg/L EC50 |
| n-Butyl Alcohol 71-36-3 | 500: 72 h Desmodesmus subspicatus mg/L EC50 500: 96 h Desmodesmus subspicatus mg/L EC50 | 1740: 96 h Pimephales promelas mg/L LC50 flow-through 100000 - 500000: 96 h Lepomis macrochirus µg/L LC50 static 1730 - 1910: 96 h Pimephales promelas mg/L LC50 static 1910000: 96 h Pimephales promelas µg/L LC50 static | 1983: 48 h Daphnia magna mg/L EC50 1897 - 2072: 48 h Daphnia magna mg/L EC50 Static |

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**

| Chemical Name | Partition Coefficient |
|---|---|
| Di(ethylene glycol) ethyl ether<br>111-90-0 | -0.8 |
| Chloroform<br>67-66-3 | 2 |
| o-Xylene<br>95-47-6 | 3.12 |
| Imidazole<br>288-32-4 | -0.02 |
| Methanol<br>67-56-1 | -0.77 |
| n-Butyl Alcohol<br>71-36-3 | 0.785 |

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Chloroform<br>67-66-3 | U044 | Included in waste streams: F024, F025, F039, K009, K010, K019, K020, K021, K029, K073, K116, K149, K150, K151, K158 | 6.0 mg/L regulatory level | U044 |
| Methanol<br>67-56-1 | | Included in waste stream: F039 | | U154 |
| n-Butyl Alcohol<br>71-36-3 | | Included in waste stream: F039 | | U031 |

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|---|---|---|---|
| Chloroform<br>67-66-3 | Category I - Volatiles | | Toxic waste<br>waste number F025<br>Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those | Toxic waste<br>waste number K021<br>Waste description: Aqueous spent antimony catalyst waste from fluoromethanes production. |

| | | | | |
|---|---|---|---|---|
| | | | having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. | |

**California Hazardous Waste Status**

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Chloroform<br>67-66-3 | Toxic |
| Methanol<br>67-56-1 | Toxic<br>Ignitable |
| n-Butyl Alcohol<br>71-36-3 | Toxic |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

**UN/ID No** UN2920
**Proper Shipping Name** Waste Corrosive liquids, flammable, n.o.s. (2-Methylimidazole, Imidazole, o-Xylene)
**Hazard Class** 8
**Subsidiary Hazard Class** 3
**Packing Group** II

**IATA**

**UN/ID No** UN2920
**Proper Shipping Name** Waste Corrosive liquids, flammable, n.o.s. (2-Methylimidazole, Imidazole, o-Xylene)
**Hazard Class** 8
**Subsidiary Hazard Class** 3
**Packing Group** II

**IMDG**

**UN/ID No** UN2920
**Proper Shipping Name** Waste Corrosive liquids, flammable, n.o.s. (2-Methylimidazole, Imidazole, o-Xylene)
**Hazard Class** 8
**Subsidiary Hazard Class** 3
**Packing Group** II
**Marine Pollutant** Yes

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name | TSCA | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|
| Di(ethylene glycol) ethyl ether | X | X | X | Present | X | Present | X | X |
| Chloroform | X | X | X | Present | X | Present | X | X |
| o-Xylene | X | X | X | Present | X | Present | X | X |
| Imidazole | X | X | X | Present | X | Present | X | X |
| Sulfur dioxide | X | X | X | Present | X | Present | X | X |
| 2-Methylimidazole | X | X | X | Present | X | Present | X | X |
| 1H-Imidazole monohydriodide | | | X | | | | | X |
| Iodine | X | X | X | | X | Present | X | X |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Methanol | X | X | X | Present | X | Present | X | X |
| Petroleum, Crude Oil | X | X | X | | X | Present | X | X |
| n-Butyl Alcohol | X | X | X | Present | X | Present | X | X |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

## US Federal Regulations

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Chloroform<br>67-66-3 | 10 lb 1 lb | 10 lb | RQ 10 lb final RQ<br>RQ 4.54 kg final RQ RQ 1 lb final RQ<br>RQ 0.454 kg final RQ |
| o-Xylene<br>95-47-6 | 1000 lb | | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Sulfur dioxide<br>7446-09-5 | | 500 lb | |
| Methanol<br>67-56-1 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| n-Butyl Alcohol<br>71-36-3 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Di(ethylene glycol) ethyl ether - 111-90-0 | 111-90-0 | 28.32 | 1.0 |
| Chloroform - 67-66-3 | 67-66-3 | 22.4 | 0.1 |
| o-Xylene - 95-47-6 | 95-47-6 | 20.5 | 1.0 |
| Methanol - 67-56-1 | 67-56-1 | 2 | 1.0 |
| Petroleum, Crude Oil - 8002-05-9 | 8002-05-9 | 0.5 | 0.1 |

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Chloroform | 10 lb | X | X | X |
| o-Xylene | | | | X |

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical Name | California Proposition 65 |
|---|---|
| Chloroform - 67-66-3 | Carcinogen<br>Developmental |
| Sulfur dioxide - 7446-09-5 | Developmental |
| 2-Methylimidazole - 693-98-1 | Carcinogen |
| Methanol - 67-56-1 | Developmental |

### U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Di(ethylene glycol) ethyl ether<br>111-90-0 | X | | X |
| Chloroform<br>67-66-3 | X | X | X |
| o-Xylene<br>95-47-6 | X | X | X |
| Sulfur dioxide<br>7446-09-5 | X | X | X |
| Iodine<br>7553-56-2 | X | X | X |
| Methanol<br>67-56-1 | X | X | X |
| n-Butyl Alcohol<br>71-36-3 | X | X | X |
| Petroleum, Crude Oil<br>8002-05-9 | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | Not determined | Not determined | Not determined | Not determined |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical hazards** | **Personal Protection** |
| | Not determined | Not determined | Not determined | Not determined |

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### Disclaimer

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**