Section 1  
Identification  

Chemical Product Name/Identifier  
Pyre-M.L. T 8585 Thinner  

CAS Number  
Mixture  

Trade Names and Synonyms  
ML-105  

Recommended Use and Restrictions on Use  
Thinner  

Company Information  
Industrial Summit Technology Corporation  
250 Cheesequake Road  
Parlin, NJ 08859  

Telephone  
Product and Sales Information: 732-238-2211  

Emergency Phone  
CHEMTREC: 1-800-424-9300  

Section 2  
Hazards Identification  

OSHA HCS Status  
This product is a hazardous chemical, as defined by OSHA at 29 CFR 1910.1200. Hazards identified are based on hazards of the ingredients.  

Relevant Route of Exposure/Target Organs  
Dermal, Eyes, Inhalation, Respiratory System  

OSHA/GHS Signal Word and Hazard Statements  
DANGER: Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. May cause cancer. May damage fertility or the unborn child. May cause genetic defects. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.  

OSHA/GHS Classification and Pictograms  
Flammable liquid (Category 3) H226  
Skin irritation (Category 2) H315
Eye irritation (Category 2A) H319
Aspiration hazard (Category 1), H304
Carcinogenicity (Category 1B) H351
Reproductive toxicity (Category 1B) H360
Germ cell mutagenicity (Category 1B) H340
Specific target organ toxicity - single exposure (Category 3, respiratory system) H335
Chronic aquatic toxicity (Category 2) H412

For the full text of the H-Statements mentioned in this Section, see Section 16

OSHA/GHS Precautionary Statements

Prevention
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. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection specified in Section 8. Wash hands and exposed skin thoroughly after handling. Wear protective gloves, eye and face protection. Avoid breathing mist, vapors, or spray. Use only outdoors or in well-ventilated area. Avoid release to the environment.

Response
In case of fire: Use water fog, foam, dry chemical, or carbon dioxide.
If exposed or concerned: get medical advice/attention.
If on skin: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Specific treatment: see Section 4 for First Aid instructions. If skin irritation occurs: Get medical advice/attention.
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 swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment: see First Aid instructions in Section 4 of Safety Data Sheet.

Storage
Store in a well-ventilated place. Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

GHS Hazard and Precautionary Statement Codes
Section 3
Composition/Information on Ingredients

Chemical Product Name
Pyre-M.L T-8585 Thinner

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Weight %</th>
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<tbody>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>80</td>
</tr>
<tr>
<td>Aromatic petroleum solvent</td>
<td>64742-95-6</td>
<td>20</td>
</tr>
</tbody>
</table>

Section 4
First-Aid Measures

Skin Contact
Immediately was skin with soap and water. Remove contaminated clothing. Get medical attention. Wash contaminated clothing before reuse.

Eye Contact
Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Inhalation
Remove person to fresh air. If not breathing, give artificial respiration. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Remove material from eyes, skin, and clothing.

Ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately give 2 glasses of water. Consult a physician.

Most Important Symptoms/Effects
Skin and eye irritation. May cause respiratory irritation or distress. May cause cancer and damage fertility or the unborn child.

Indication of Immediate Medical Attention and Special Treatment Needed
Get medical attention immediately any of the symptoms noted above occur.

Section 5
Fire-Fighting Measures

Extinguishing Media
water fog, foam, dry chemical, CO2.
Hazardous Combustion Products
Oxides of carbon produced when burned. Vapor forms explosive mixture with air.

Protective Equipment
Firefighters and others who may be exposed to products of combustion (see Hazardous Decomposition Products in Section 10) should be equipped with self-contained breathing apparatus and full protective gear. Equipment should be thoroughly decontaminated after use.

Fire Fighting Procedures/Precautions
Keep away from heat/sparks/open flames/hot surfaces. Keep personnel removed and upwind of fire. Closed containers exposed to heat may build up pressure. Use water spray to keep exposed containers and equipment cool. Use water spray to cool containers and tanks if exposed to fire.

Section 6
Accidental Release Measures

Personal Precautions
Review Firefighting Measures and Handling sections before proceeding with clean up. Take precautions to avoid eye, skin, and respiratory exposure. Should exposure occur, see Section 4 for first aid measures. Flammable vapors can accumulate in low areas and form explosive concentrations.

Protective Equipment
Use appropriate personal protective equipment during clean up. See Section 8.

Emergency Procedures
Maintain adequate ventilation. Shut off all sources of ignition. No heat, sparks, or flame in the area.

Methods/Materials for Containment and Cleaning Up
Dike spill. Remove sources of sparks, flame, or hot surfaces. Absorb spill with commercial absorbent material and place in suitable containers for disposal. See section 13 for disposal instructions. Do not discharge into waterways or sewer systems without proper authority. Dispose of in accordance with government regulations.

Section 7
Handling and Storage

Precautions
Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep away from heat, sparks and flames.

Storage
Keep container in a cool place. Store below 50 C (122 F). Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations.
### Section 8
### Exposure Controls/Personal Protection

#### Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>OARS/WEEL**</th>
<th>I.S.T/AEL*</th>
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<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>NA</td>
<td>NA</td>
<td>10 ppm</td>
<td>25 ppm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>8 hr TWA</td>
<td>8 hr TWA</td>
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<tr>
<td>Aromatic petroleum solvent</td>
<td>500 ppm</td>
<td>200 mg/m3</td>
<td>NA</td>
<td>50 ppm</td>
</tr>
<tr>
<td></td>
<td>2000 mg/m3</td>
<td>(Naptha)</td>
<td></td>
<td>TWA</td>
</tr>
</tbody>
</table>

* AEL is I.S.T’s acceptable limit. Where governmentally imposed occupational exposure limits, which are lower than the AEL are in effect, such shall take precedence.

** Occupational Alliance for Risk Science, workplace environmental exposure level.

#### Engineering Controls
Use ventilation that is adequate to keep employee exposure to airborne concentrations below recommended exposure limits. Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. If practical use, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust system.

#### Personal Protection Measures/Equipment

##### Skin Protection
Wear appropriate chemical resistant gloves and clothing to prevent skin contact. Consult glove manufacturer to determine appropriate type of glove for given application. Wear chemical safety goggles, a face shield and a chemical resistant apron when splashing is likely. Wash immediately if skin is contaminated. Remove contaminated clothing promptly and launder before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash hands and exposed skin thoroughly after handling. Repeated or prolonged contact may cause allergic skin reaction in some people.

##### Eye Protection
Wear eye and face protection. Wear safety glasses with side shields or chemical goggles that meet ANSI Z87 standards and/or are tested and approved under appropriate government standards. Eyewash stations should be easily accessible.

##### Respiratory Protection
Avoid breathing vapor and/or mist. Use NIOSH/MSHA approved respiratory protection equipment (full face piece recommended) when airborne exposure limits (see above) are exceeded. If used, full face piece replaces need for face shield and chemical goggles. Consult respirator manufacturer to determine the appropriate type of equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.
Section 9
Physical and Chemical Properties

Appearance (physical state, color, etc.)
Colorless liquid

Odor
Aromatic hydrocarbon

Odor Threshold
Not known

pH
Not known

Melting Point/Freezing Point
Not known

Initial Boiling Point
Not known

Flash Point
47.5°C (117.5°F closed cup)

Evaporation Rate
Not known

Flammability
Flammable liquid

Upper/Lower Flammability or Explosive Limits
Not known

Vapor Pressure
Not known

Vapor Density
Not known

Relative Density/Specific Gravity
1.02 @ 25°C

Solubility
Not known
Partition Coefficient
Not known

Auto-ignition Temperature
Not known

Decomposition Temperature
Not known

Viscosity
Not known

% Volatiles
100

Note
This physical data are typical values based on material tested by may vary from sample to sample. Typical values should not be considered as a guaranteed analysis of any specific lot or as a specification for the product.

Section 10
Stability and Reactivity

Reactivity
Not known

Chemical Stability
Not known

Hazardous Reactions
Not known

Conditions to Avoid
All sources of ignition – heat, sparks, and open flames.

Incompatible Materials
Strong oxidizing agents

Hazardous Decomposition Products
Oxides of carbon.

Hazardous Polymerization
Does not occur

Section 11
Toxicological Information

Relevant Route of Exposure/Target Organs
Dermal, Eyes, Inhalation, Respiratory System

Symptoms
Causes skin irritation. Causes serious eye irritation. May cause respiratory tract irritation. May damage fertility or the unborn child.

Delayed and Immediate Effects
N-methyl-2-pyrrolidone
Inhalation 4 hour LC50: 3,914 mg/kg in rats
Dermal LD50: 8000 mg/kg in rabbits
Oral LD50: 4320 mg/kg in rats

Eye contact with the liquid or vapor may initially result in irritation with discomfort, tearing, or blurring of vision. Low vapor concentrations caused eye irritation in some individuals.

Skin effects: Skin contact may initially result in irritation with discomfort or rash. Inhalation may initially include: irritation of the upper respiratory passages, with coughing, discomfort, and headache.

N-methyl-2-pyrrolidone: Human experience has demonstrated severe dermatitis (blistering, cracking, edema, redness) upon prolonged or repeated skin contact. There are inconclusive or unverified reports of human sensitization.

Aromatic Petroleum Distillate
Inhalation 6 hour LC50: > 14.4 mg/L in rats
Oral LD50: 5000 mg/kg in rats

The compound is a moderate skin irritant, a slight eye irritant, and a skin photosensitizer in animals.

Skin contact may initially include: skin irritation with discomfort or rash. Evidence suggests that skin permeation can occur in amounts capable of producing photosensitization.

Eye contact may initially include: eye irritation with discomfort, tearing, or blurring of vision. Inhalation may initially include: irritation of the upper respiratory passages' with coughing and discomfort. Toxic effects of single exposure to very high concentrations include hyperactivity, salivation, lack of coordination, tremors, irregular respiration and nonspecific such as weight loss and irritation. Long-term exposure produced no significant effects from exposure to concentrations of 400 ppm for one year.

Ingestion may initially include: nonspecific discomfort, such as nausea, headache, or weakness; temporary nervous system depression, dizziness, headache, confusion, lack of coordination/ and loss of consciousness.

Health Effects Summary
Chronic Effects (Following Short and Long Term Exposure)

Toxicological Data
n-Methyl Pyrrolidone (NMP)

Human experience indicates that continued or gross skin contact with NMP produces irritation, redness, and defatting of the skin. Inhalation of very high concentrations of NMP may result in headache, giddiness, nausea, and mental confusion. Repeated dosing of laboratory animals with NMP has been reported to cause changes in organ weights and blood composition, reduced response to sound, and breathing difficulty at a dosage which produced death. No skin allergy was observed in guinea pigs following repeat skin exposure. Long-term inhalation (2 years) of NMP produced no increase in tumors in rats and NMP did not show Tumor initiating activity in a mouse skin painting study. Birth defects were reported following dermal application of NMP to rats at amounts which produced adverse effects on the mother and following intraperitoneal injection in two strains of mice. No birth effects were reported in rats exposed to NMP by inhalation. No effects were seen on the ability of rats to reproduce when exposed to NMP for two successive generations, although toxic effects were reported in offspring at levels which produced adverse effects on the mother. NMP has produced no genetic changes in standard tests using animal and bacterial cells.

Toxicity described in animals from single exposures includes irregular and rapid respiration/ hyperemia, salivation and weight loss. Repeated exposures caused lethargy and irregular respiration at concentrations of 0.1 and 0.5 mg/L, and at 1.0 mg/L, bone marrow hypoplasia, thymus, spleen and lymph node changes occurred (reversible after 14 days post-exposure), and mortality. There were no observed effects from a study in which rats were exposed to 370 ppm for two weeks. Changes in rats exposed for two years to 10 or 100 ppm included reduced weight gain in male rats at the 100 ppm concentration level. No other significant changes occurred in this study.

Repeated exposure of dogs to 25, 79 or 250 mg/kg/day of the compound in the diet caused lower serum cholesterol, and increased platelet counts. Rats fed 800, 2000 or 5000 ppm exhibited minor effects which included increased thyroid weights in males, and increased urine pH and enzymatic changes in males and females.

Carcinogenicity

Light aromatic naphtha: IARC Group 3: Not classifiable as to its carcinogenicity in humans
Other components of this product are not classified by NTP, IARC, or OSHA as carcinogens.

Section 12
Ecological Information

N-methyl-2-pyrrolidone
96-hr LC50 Bluegill
382 mg/l

96-LC 50 Fathead minnow
1072 mg/l

Aromatic petroleum distillate
96-hr LC 50 White crappie
4.2 mg/l (approximate)

Persistence and Degradability
Bioaccumulative Potential  
Not known  

Mobility in Soil  
Not known  

Section 13  
Disposal Information  
Do not discharge into waterways or sewer systems. Dispose of in accordance with government regulations.  

Section 14  
Transport Information  
UN Number: 1263  
Proper shipping name: Paint Related Material  
Hazard class: 3  
Packing group: III  

Section 15  
Regulatory Information  
TSCA Inventory Status  
All ingredients are on the TSCA inventory.  

SARA Title III Section 311/312 Hazard Categories  
Immediate (acute), Delayed (chronic), Fire  

SARA Title III Section  
The component listed below is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 (EPCRA or SARA Title III) and 40 CFR 372.  

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>313 Listed</th>
<th>%</th>
<th>RQ (lb)</th>
</tr>
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<tbody>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>Yes</td>
<td>80</td>
<td>-</td>
</tr>
</tbody>
</table>

CERCLA RQ  
See table above.  

California Proposition 65
This product contains N-methyl-2-Pyrrolidone, a chemical known to the State of California to cause birth defects or other reproductive harm (developmental).

Section 16
Other Information

Date of Preparation or Revision
August 01, 2020

GHS Label Hazard Statement Codes
Signal Word: DANGER
H226  Flammable liquid and vapor
H315  Causes skin irritation
H319  Causes serious eye irritation
H304  Aspiration hazard
H335  May cause respiratory irritation
H351  Suspected of causing cancer
H360  May damage fertility or the unborn child
H340  Germ cell mutagen
H335  Specific target organ toxicity - single exposure (Category 3, respiratory system)
H412  Harmful to aquatic life with long lasting effects

GHS Label Precautionary Statement Codes
P201  Obtain special instructions before use.
P202  Do not handle until all safety precautions have been read and understood.
P210  Keep away from flames and hot surfaces. – No smoking.
P233  Keep container tightly closed.
P241  Use explosion-proof equipment.
P242  Use non-sparking tools.
P343  Take action to prevent static discharges.
P260  Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
P264  Wash hands thoroughly after handling.
P271  Use only outdoors or in a well-ventilated area.
P273  Avoid release to the environment.
P280  Wear protective gloves, eye and face protection.
P281  Use personal protective equipment as required.
P301+310  IF SWALLOWED: Immediately call a poison center/doctor.
P302+P352  IF ON SKIN: Wash with plenty of soap and water.
P303+313  If exposed or concerned: Get medical advice/attention.
P304+P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P251+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307+P313  If exposed: Call a POISON CENTER or doctor/ physician.
P312  Call a POISON CENTER or doctor/physician if you feel unwell.
P321  Specific treatment: In case of skin contact, immediately wash skin with soap and water. Remove and wash contaminated clothing before reuse.
P331  Do NOT induce vomiting.
P332+P313  If skin irritation occurs: Get medical advice.
P337+P313  If eye irritation persists: Get medical advice.
P361+P364  Take off immediately all contaminated clothing and wash it before reuse.
P370+P378  In case of fire: Use water fog, dry chemical, foam, or CO2 for extinction.
P405  Store locked up.
P501  Dispose of contents/container in accordance with local/regional/national/international regulations.

Abbreviations

ALC  Approximate Lethal Concentration
ANSI  American National Standards Institute
C  Ceiling
CAS  Chemical Abstracts Service
CERCLA  Comprehensive Environmental Response Compensation and Liability Act
CFR  US Code of Federal Regulations
CO2  Carbon dioxide
DOT  US Department of Transportation
EPCRA  Emergency Planning and Community Right to Know Act
GHS  UN Globally Harmonized System of Classification and Labeling of Chemicals
HCS  Hazard Communication Standard
IARC  International Agency for Research on Cancer
ICAO/IATA  International Civil Aviation Organization/International Air Transport Association
IMO/IMDG  International Maritime Organization/International Maritime Dangerous Goods Code
LC50  Lethal concentration to 50% of exposed laboratory animals
LD50  Lethal dose to 50% of exposed laboratory animals
MSHA  US Mine Safety and Health Administration
NIOSH  US National Institute of Occupational Safety and Health
NA  Not available
NMP  N-methyl-2-pyrrolidone
NTP  National Toxicology Program
OARS  Occupational Alliance for Risk Science
OSHA  US Occupational Safety Health Administration
RQ  Reportable quantity
SARA  Superfund Amendments and Reauthorization Act
SDS  Safety data sheet
TSCA  Toxic Substances Control Act
UN  United Nations
US/USA  United States
WEEL  Workplace Environmental Exposure Levels

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