

Safety Data Sheet

I. Product and Company Identification

PRODUCT: LYMTAL 320H PART A
MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359
www.lymtal.com
For Non-Emergency Questions,
Hours 8AM To 4PM Eastern Standard Time
(248) 373-8100

EMERGENCY CONTACT: 24-Hour Chemtrec (800)424-9300
Chemtrec, D.C. Area (800)483-7616

II. Hazards Identification

Classification of the Substance or Mixture:



Eye Damage/Irritation, CAT 1



Flammable Liquid, CAT 3



Resp Sensitizer, CAT 1; Germ Cell Mutagenicity, CAT 1B; Carcinogenicity, CAT 1A;
Reproduction Toxicity, CAT 1B; STOT Repeated Exposure, CAT 2 Liver, Kidney, CNS;
Aspiration Hazard, CAT 1

Signal Word:

DANGER

Hazard Statements:

| | | |
|------|---|----------------------------------|
| H226 | Flammable Liquid And Vapor | Flammable Liquid, Cat 3 |
| H302 | Harmful If Swallowed | Acute Toxicity, Cat 4, Oral |
| H304 | May Be Fatal If Swallowed And Enters Airways | Aspiration Hazard, Cat 1 |
| H315 | Causes Skin Irritation | Skin Corrosion/Irritation Cat 2 |
| H317 | May Cause An Allergic Skin Reaction | Skin Sensitizer, Cat 1 |
| H318 | Causes Serious Eye Damage | Eye Damage/Irritation, Cat 1 |
| H333 | May Be Harmful If Inhaled | Acute Toxicity, Cat 5, Inhale |
| H334 | May Cause Allergy Or Asthma Symptoms Or Breathing Difficulties If Inhaled | Resp Sensitizer, Cat 1 |
| H335 | May Cause Respiratory Irritation | Stot Single Exposure, Cat 3, RTI |

| | | |
|------|---|---|
| H336 | May Cause Drowsiness Or Dizziness | Stot Single Exposure, Cat 3, Narcotic Effects |
| H340 | May Cause Genetic Defects | Germ Cell Mutagenicity , Cat 1B |
| H350 | May Cause Cancer | Carcinogenicity, Cat 1A |
| H360 | May Damage Fertility Or The Unborn Child | Reproduction Toxicity, Cat 1B |
| H373 | May Cause Damage To Organs Through Prolonged Or repeated Exposure | Stot Repeated Exposure, Cat 2, Liver, Kidney, CNS |
| H401 | Toxic To Aquatic Life | Aquatic Environmental Hazard, Cat 2 |
| H412 | Harmful To Aquatic Life With Long Lasting Effects | Long term Aquatic environmental Hazard, Cat 3 |

Precautionary Statements:

| | |
|------------------|---|
| P102 | Keep Out Of Reach Of Children |
| P103 | Read Label Before Use |
| P201 | Obtain Special Instructions Before Use |
| P202 | Do Not Handle Until All Safety Precautions Have Been Read And Understood |
| P210 | Keep Away From Heat, Hot Surfaces, Sparks, Open Flames And Other Ignition Sources No Smoking |
| P240 | Ground/Bond Container And Receiving Equipment |
| P241 | Use Explosion Proof Electrical/Ventilation/Lighting/Equipment |
| P242 | Use Only Non Sparking Tools |
| P243 | Take Precautionary Measures Against Static Discharge |
| P260 | Do Not Breathe Dust/Fume/Gas/Mist/Vapors/Spray |
| P261 | Avoid Breathing Vapors |
| P264 | Wash Thoroughly After Handling |
| P270 | Do Not Eat/Drink/Smoke While Using This Product |
| P271 | Use Only Outdoors Or In A Well Ventilated Area |
| P272 | Contaminated Clothing Should Not Be Allowed Out Of the Workplace |
| P273 | Avoid Release To The Environment |
| P280 | Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection |
| P284 | Wear Respiratory Protection |
| P285 | In Case Of Inadequate Ventilation Wear Respiratory Protection |
| P301 +P312 | If Swallowed: Call A Poison Center/Doctor If You Feel Unwell |
| P302 + P362+P353 | If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower |
| P304+P340+P314 | If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing, Get Medical Advice/Attention If You Feel Unwell. |
| P305+P351+P338 | If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses If Present And Easy To Do. Continue Rinsing. |
| P308+P313 | If Exposed Or Concerned: Get Medical Advice/Attention |
| P310 | Immediately Call A Poison Center Or Doctor |
| P330 | Rinse Mouth |
| P331 | Do Not Induce Vomiting |
| P332+P313 | If Skin Irritation Occurs, Get Medical Advice/Attention |
| P342+P311 | If Experiencing Respiratory Symptoms, Call A Poison Center Or Doctor |
| P337+P313 | If Eye Irritation Persists: Get Medical Advice/Attention |
| P363 | Wash Contaminated Clothing Before Reuse |
| P370+P378 | In Case Of Fire: Use Carbon Dioxide, Foam, Dry Chemical, Water Fog To Extinguish |
| P391 | Collect Spillage |
| P403+P235+P233 | Store In A Well Ventilated Place. Keep Cool. Keep Container Tightly Closed |
| P405 | Store Locked Up |
| P501 | Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations |

III. Composition/Information on Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

| <u>Ingredients:</u> | <u>CAS #:</u> | <u>CONTENT</u> |
|------------------------|---------------|----------------|
| Petroleum Asphalt | 8052-42-4 | <30% |
| Petroleum Hydrocarbons | 64742-95-6 | 13.36% |
| Toluene Diisocyanate | 26471-62-5 | <1.0% |
| 1,2,4-Trimethylbenzene | 95-63-6 | 6.78% |
| Xylene | 1330-20-7 | .363% |
| Cumene | 98-82-8 | .318% |

California Proposition 65 ingredients

| | | |
|----------------------|------------|-------|
| Toluene Diisocyanate | 26471-62-5 | <1.0% |
|----------------------|------------|-------|

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

| | | |
|------------------------|------------|-------|
| Toluene Diisocyanate | 26471-62-5 | <1.0% |
| 1,2,4-Trimethylbenzene | 95-63-6 | 6.78% |
| Xylene | 1330-20-7 | .363% |
| Cumene | 98-82-8 | .318% |

IV. First Aid Measures

| | |
|-------------------|--|
| <u>Inhalation</u> | Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance |
| <u>Eyes</u> | Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention. |
| <u>Skin</u> | Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse. |
| <u>Ingestion</u> | Do not induce vomiting; get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person |

V. Fire Fighting Methods

HMIS Hazard Rating No. 2

Flash Point: > 100 °F (37.8° C)

Method: Pensky Marten C.C.

General Hazard: Decomposition and combustion products may be toxic.

Auto-Ignition Temp.: Not Available

Limits of Flammability

LEL: Not Available

UEL: Not Available

Extinguishing Media

Carbon dioxide, foam, dry chemical and water fog.

Special Fire & Unusual Hazards

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from the side. As in any fire, wear NIOSH/MSHA approved, pressure demand self contained breathing apparatus and full protective gear.

VI. Accidental Release Measures

Action To Take For Spills/ Leaks: Avoid contact with skin or eyes. Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, clean up residue with absorbent material. This product is heavier than and insoluble in water. Wash down area using a soap solution and allow 10 minutes to react.

Waste Disposal Method: Handle disposal of waste material in manner which complies with local, state, province and federal regulation. Landfill if solidified, or incineration at agency approved waste-disposal facilities.

VII. Handling And Storage

Store In a Cool, Dry Place At 50-95°F. Condition Material To 65-85°F Before Using

VIII. Exposure Controls / Personal Protection

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and impervious gloves. Wear clothing with long sleeves and pants. In operations where mists can be generated or the exposure limits for crystalline silica exceeded, wear a NIOSH/MSHA approved dust/fume respirator selected by a technically qualified person for the specific work conditions. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard.

Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

IX. Physical And Chemical Properties

| | | | |
|----------------------------------|---------------------|-------------------------------------|-----------------|
| Boiling Point (°C): | N/D | Water/Oil Distribution Coefficient: | N/A |
| Volatile Organic Content: | 226 g/l | Solubility in Water: | Negligible |
| Freezing Point (°C): | N/A | Specific Gravity @20° C | 1.07 |
| Vapor Pressure @ 20° C | N/A | pH: | N/A |
| Vapor Density | >air | Evaporation Rate: | N/A |
| Odor Threshold: | N/A | Odor: | Aromatic |
| Appearance: | Black liquid | | |
| N/A = Not Available | N/D=NOT Determined | Ca. = Approximate | |

X. Stability And Reactivity

HMIS Hazard Rating No. 1

Stability

Stable, avoid contact with moisture.

Incompatibility:

Strong oxidizing agents and reducing agents, strong acids, bases, amines and peroxides.

Hazardous Decomposition Products

Oxides of Carbon; and nitrogen; Decomposition and Combustion products may be toxic.

Conditions To Avoid

Strong acids, bases, amines and peroxides in bulk.

XI. Toxicity Information

HMIS Hazard Rating No. 2

PRIMARY ROUTE OF ENTRY: Inhalation, dermal, eyes and ingestion.

Effects Of Overexposure

Inhalation: Vapors can be irritating to nose and mucous membranes.
Eyes: Contact can cause severe irritation.
Skin Contact: In some individuals it may cause sensitization.
Ingestion: May cause permanent damage to the mouth throat and stomach.
Chronic: This product does not contain chemicals considered to be carcinogenic by NTP, IRAC, ACGIH, OSHA.

XII. Ecological Information

Marine Pollutant: NL

(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

XIII. Disposal Considerations

Handle disposal of waste material in a manner that complies with all applicable local, state, provincial and federal regulations.

XIV. Transport Information

DOT SHIPPING INFORMATION

DOT Proper Shipping Name **NOT REGULATED**
This product is not regulated by DOT in containers of 119 gallon capacity or less. *

INTERNATIONAL (NON-BULK):

| | | | |
|----------------------|--|----------|-----------|
| Proper Shipping Name | Petroleum Distillate, n.o.s. (Petroleum Naphtha) | | |
| Hazard Class | 3 , PG III | | |
| I.D. Number | UN1268 | Label(s) | Flammable |

XV. Regulatory Information

| | |
|---|--|
| OSHA Hazard Communication Standard (29 CFR 1910.1200) | Hazardous |
| CERCLA/ Super fund (40 CFR 117,302) | CASRN 26471-62-5 RQ: 100 lbs |
| SARA Extremely Hazardous Substances (40 CFR 355) | N/A |
| SARA Hazard Categories (40 CFR 370) Section 311/ 312 | Health : Immediate Physical: Delayed, reactive |
| SARA Toxic Chemicals (40 CFR 372) Inventory Status | See section 313 advisory in section III The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List. |

XVI. Other Information

THE INFORMATION HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LymTal INTERNATIONAL INC. CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

Date of Preparation/ Last Revision: 12/09/2015

Safety Data Sheet

I. Product and Company Identification

PRODUCT: LYMTAL 320H PART B
MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359
www.lymtal.com
For Non-Emergency Questions,
Hours 8AM To 4PM Eastern Standard Time
(248) 373-8100

EMERGENCY CONTACT: 24-Hour Chemtrec (800)424-9300
Chemtrec, D.C. Area (800)483-7616

II. Hazards Identification

Classification of the Substance or Mixture:



Skin Corrosion/Irritation, CAT 1C; Eye Damage/Irritation, CAT 1



Aquatic Environmental Hazard, CAT 1; Long Term Aquatic Environmental Hazard, CAT 1



Acute Toxicity, CAT 4, Oral; Skin Sensitizer, CAT 1



Germ Cell Mutagenicity, CAT 2; Reproduction Toxicity, CAT 1B; STOT Single Exposure, CAT 1; STOT Repeated Exposure, CAT 2, Pancreas

Signal Word: **DANGER**

Hazard Statements:

| | | |
|------|--|----------------------------------|
| H302 | Harmful If Swallowed | Acute Toxicity, Cat 4, Oral |
| H313 | May Be Harmful in Contact With Skin | Acute Toxicity, Cat 5, Dermal |
| H314 | Causes Severe Skin Burns And Eye Damage | Skin Corrosion/Irritation Cat 1C |
| H317 | May Cause An Allergic Skin Reaction | Skin Sensitizer, Cat 1 |
| H318 | Causes Serious Eye Damage | Eye Damage/Irritation, Cat 1 |
| H341 | Suspected of Causing Genetic Defects | Germ Cell Mutagenicity, Cat 2 |
| H360 | May Damage Fertility Or The Unborn Child | Reproduction Toxicity, Cat 1B |
| H370 | Causes Damage To Organs | Stot Single Exposure, Cat 1 |

| | | |
|------|---|---|
| H373 | May Cause Damage To Organs Through Prolonged Or repeated Exposure | Stot Repeated Exposure, Cat 2, Pancreas |
| H400 | Very Toxic To Aquatic Life | Aquatic Environmental Hazard, Cat 1 |
| H410 | Very Toxic To Aquatic Life With Long Lasting Effects | Long term Aquatic Environmental Hazard, Cat 1 |

Precautionary Statements:

| | |
|------------------|---|
| 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 |
| P201 | Obtain Special Instructions Before Use |
| P202 | Do Not Handle Until All Safety Precautions Have Been Read And Understood |
| P233 | Keep Container Tightly Closed |
| P260 | Do Not Breathe Dust/Fume/Gas/Mist/Vapors/Spray |
| P261 | Avoid Breathing Vapors |
| P264 | Wash Thoroughly After Handling |
| P270 | Do Not Eat/Drink/Smoke While Using This Product |
| P271 | Use Only Outdoors Or In A Well Ventilated Area |
| P272 | Contaminated Clothing Should Not Be Allowed Out Of the Workplace |
| P273 | Avoid Release To The Environment |
| P280 | Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection |
| P281 | Wear Personal Protective Equipment As Required |
| P285 | In Case Of Inadequate Ventilation Wear Respiratory Protection |
| P301 +P312 | If Swallowed: Call A Poison Center/Doctor If You Feel Unwell |
| P302 + P362+P353 | If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower |
| P304+P340+P314 | If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing, Get Medical Advice/Attention If You Feel Unwell. |
| P305+P351+P338 | If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses If Present And Easy To Do. Continue Rinsing. |
| P308+P313 | If Exposed Or Concerned: Get Medical Advice/Attention |
| P309+P311 | If Exposed Or If You Feel Unwell: Call A Poison Center Or Doctor/Physician |
| P330 | Rinse Mouth |
| P331 | Do Not Induce Vomiting |
| P332+P313 | If Skin Irritation Occurs, Get Medical Advice/Attention |
| P337+P313 | If Eye Irritation Persists: Get Medical Advice/Attention |
| P363 | Wash Contaminated Clothing Before Reuse |
| P391 | Collect Spillage |
| P403+P235 | Store In A Well Ventilated Place. Keep Cool. |
| P405 | Store Locked Up |
| P501 | Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations |

III. Composition/Information on Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

| <u>Ingredients:</u> | <u>CAS #:</u> | <u>CONTENT</u> |
|-----------------------------------|---------------|----------------|
| N,N'-Dialkylaminodiphenyl-Methane | 5285-60-9 | <50% |
| Proprietary Ingredients | | Balance |

California Proposition 65 ingredients

| | | |
|-----|----------|-----------|
| MDA | 101-77-9 | <0.05 wt% |
|-----|----------|-----------|

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

None

IV. First Aid Measures

| | |
|-------------------|--|
| <u>Inhalation</u> | Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance |
| <u>Eyes</u> | Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention. |
| <u>Skin</u> | Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse. |
| <u>Ingestion</u> | Do not induce vomiting; get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person |

V. Fire Fighting Methods

HMIS Hazard Rating No. 1

Flash Point: 149°C (300°F)

Method: Pensky Martin C.C.

Auto-Ignition Temp.: Not Available

Limits of Flammability: LEL: Not Available

UEL: Not Available

Extinguishing Media: Carbon dioxide, foam, dry chemical & water fog.

Special Fire & Unusual Hazards: At higher temperature vapors can cause pressure build up in sealed containers. Vapors heavier than air can concentrate, travel to source of ignitions, and flash back. Residue in container can ignite explosively. Vapors generated during a fire are irritating, self-contained breathing apparatus recommended.

VI. Accidental Release Measures

Action To Take For Spills/ Leaks: Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, and clean up residue with absorbent material.

Waste Disposal Method: Handle disposal of waste material in manner which complies with local, state, province and federal regulation. Landfill if solidified or incineration at agency approved waste-disposal facilities.

VII. Handling And Storage

Store In Cool, Dry Place At 50-95°F. Condition Material To 65-85°F Before Using

VIII. Exposure Controls / Personal Protection

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and Rubber/Latex gloves. Selection of specific items such as boots and apron will depend on operation. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH/OSHA approved respirators equipped with an organic vapor cartridge for listed hazard.

Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

IX. Physical And Chemical Properties

| | | | |
|-------------------------------|-------------------------|-------------------------------------|-----------|
| Boiling Point (°C): | 441 | Water/Oil Distribution Coefficient: | N/Av |
| Percent Volatile: | Ca. 0.1 (226 g/l a+b) | Solubility in Water: | insoluble |
| Freezing Point (°C): | N/Av | Specific Gravity: | 0.98 |
| Vapor Pressure mmHg @25 (°C): | <1 | pH: | N/Av |
| Vapor Density (Air = 1) | 10.7 | Evaporation Rate: | N/Av |
| Odor Threshold: | N/Av | Odor: | Pungent |
| Appearance: | Viscous brown liquid | | |
| N/Av = Not Available | N/Av = Not Applicable | Ca. = Approximate | |

X. Stability And Reactivity

HMIS Hazard Rating No. 0

Stability: Stable. Not sensitive to mechanical impact.

Incompatibility: Peroxide, oxidizing, and reducing agents, and sources of ignition.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, and various hydrocarbons from incomplete combustion.

Hazardous Polymerization: Will not occur when handled per instructions.

XI. Toxicity Information

HMIS Hazard Rating No. 1

PRIMARY ROUTE OF ENTRY: Dermal, Eyes.

Effects Of Overexposure

| | |
|------------------|--|
| Inhalation: | Inhalation of product vapors or mist may cause irritation of the respiratory tract. |
| Eyes: | May cause mild irritation. |
| Skin Contact: | May cause slight irritation. |
| Skin Absorption: | Absorption through skin is possible and may cause systemic effects. |
| Ingestion: | Moderately toxic by ingestion. Can cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache and drowsiness. |
| Chronic: | Product does not contain carcinogenic materials as defined by OSHA Hazardous Communications Act 1910.1200. |
| | Materials are not known mutagenic, teratogenic, or reproductive health hazards. |

XII. Ecological Information

Marine Pollutant: NL
(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

XIII. Disposal Considerations

Handle disposal of waste material in a manner that complies with all applicable local, state, provincial and federal regulations. Landfill if solidified, incineration or dispose at agency approved waste-disposal facilities

XIV. Transport Information

DOT

Not Regulated

International/Air

Not Regulated

XV. Regulatory Information

SARA Section 302:

No reportable materials.

SARA Section 311/312:

Health hazard: Immediate

Physical hazard: None

SARA Section 313:

No reportable materials.

State: California

No reportable materials.

WHMIS Classification:

Class D, Div. 2, Sub B

XVI. Other Information

THE INFORMATION HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LymTal INTERNATIONAL INC. CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

Date of Preparation/ Last Revision: 12/08/2015