

**SECTION 1: IDENTIFICATION****Product Identifier****Product Form:** Mixture**Product Name:** HELMITAC 1620**Intended Use of the Product****Use of the Substance/Mixture:** No use is specified.**Name, Address, and Telephone of the Responsible Party****Company**

Helmitin Inc.

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Toronto, Ontario, M8Z 5K7

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**Emergency Telephone Number****Emergency Number** : CANUTEC 613-996-6666 / CHEMTREC 1-800-424-9300**SECTION 2: HAZARDS IDENTIFICATION****Classification of the Substance or Mixture****Classification (GHS-US)**

Simple Asphy H380

Flam. Gas 1 H220

Compressed gas H280

Skin Irrit. 2 H315

Eye Irrit. 2A H319

STOT SE 3 H336

Asp. Tox. 1 H304

Full text of H-phrases: see section 16

**Label Elements****GHS-US Labeling****Hazard Pictograms (GHS-US)****Signal Word (GHS-US)**

: Danger

**Hazard Statements (GHS-US)**: H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H380 - May displace oxygen and cause rapid suffocation.**Precautionary Statements (GHS-US)**: P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.  
P261 - Avoid breathing vapors, mist, or spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.

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P280 - Wear respiratory protection, protective gloves, protective clothing, face protection, eye protection.

P301+P310 - IF SWALLOWED: Immediately call a poison center or doctor.

P302+P352 - IF ON SKIN: Wash with plenty of water.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 - Do NOT induce vomiting.

P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Flammable vapors can accumulate in head space of closed systems.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)
Propane	(CAS No) 74-98-6	10 - 30
Butane	(CAS No) 106-97-8	10 - 30
Resin acids and rosin acids, esters with pentaerythritol	(CAS No) 8050-26-8	15 - 40
Acetone	(CAS No) 67-64-1	10 - 30
Dimethyl ether	(CAS No) 115-10-6	7 - 13
Heptane, branched, cyclic and linear	(CAS No) 426260-76-6	5 - 10
n-Heptane	(CAS No) 142-82-5	3 - 7

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation. Causes skin irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. May cause genetic defects. May displace oxygen and cause rapid suffocation.

**Inhalation:** May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

**Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Symptoms:** Not classified.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

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### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, dry chemical, or sand.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Extremely flammable gas.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Exercise caution when fighting any chemical fire. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leaking gas fire, eliminate all ignition sources if safe to do so.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Burning can produce carbon monoxide, carbon dioxide, chloride and hydrocarbons. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. . Formaldehyde. May release poisonous hydrogen sulfide. Sulfur oxides.

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, gas). Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use only non-sparking tools.

#### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable. Extremely flammable gas.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment. Use only non-sparking tools.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** strong acids. Strong bases. Strong oxidizers.

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### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Propane (74-98-6)		
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA IDLH	US IDLH (ppm)	2100 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Butane (106-97-8)		
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	800 ppm
Dimethyl ether (115-10-6)		
British Columbia	OEL TWA (ppm)	1000 ppm
Acetone (67-64-1)		
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (ppm)	750 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	250 ppm
USA IDLH	US IDLH (ppm)	2500 ppm (10% LEL)
Alberta	OEL STEL (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	750 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	500 ppm
British Columbia	OEL STEL (ppm)	500 ppm
British Columbia	OEL TWA (ppm)	250 ppm
Manitoba	OEL STEL (ppm)	750 ppm
Manitoba	OEL TWA (ppm)	500 ppm
New Brunswick	OEL STEL (mg/m <sup>3</sup> )	1782 mg/m <sup>3</sup>
New Brunswick	OEL STEL (ppm)	750 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	1188 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	500 ppm
Newfoundland & Labrador	OEL STEL (ppm)	750 ppm
Newfoundland & Labrador	OEL TWA (ppm)	500 ppm
Nova Scotia	OEL STEL (ppm)	750 ppm
Nova Scotia	OEL TWA (ppm)	500 ppm
Nunavut	OEL STEL (mg/m <sup>3</sup> )	2970 mg/m <sup>3</sup>
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	2370 mg/m <sup>3</sup>
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	2970 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	2370 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	750 ppm

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<b>Ontario</b>	OEL TWA (ppm)	500 ppm
<b>Prince Edward Island</b>	OEL STEL (ppm)	750 ppm
<b>Prince Edward Island</b>	OEL TWA (ppm)	500 ppm
<b>Québec</b>	VECD (mg/m <sup>3</sup> )	2380 mg/m <sup>3</sup>
<b>Québec</b>	VECD (ppm)	1000 ppm
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	1190 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (ppm)	500 ppm
<b>Saskatchewan</b>	OEL STEL (ppm)	750 ppm
<b>Saskatchewan</b>	OEL TWA (ppm)	500 ppm
<b>Yukon</b>	OEL STEL (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL (ppm)	1250 ppm
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA (ppm)	1000 ppm
<b>n-Heptane (142-82-5)</b>		
<b>USA ACGIH</b>	ACGIH TWA (ppm)	400 ppm
<b>USA ACGIH</b>	ACGIH STEL (ppm)	500 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (ppm)	500 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (ppm)	85 ppm
<b>USA NIOSH</b>	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (ceiling) (ppm)	440 ppm
<b>USA IDLH</b>	US IDLH (ppm)	750 ppm
<b>Alberta</b>	OEL STEL (mg/m <sup>3</sup> )	2050 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL (ppm)	500 ppm
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	1640 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA (ppm)	400 ppm
<b>British Columbia</b>	OEL STEL (ppm)	500 ppm
<b>British Columbia</b>	OEL TWA (ppm)	400 ppm
<b>Manitoba</b>	OEL STEL (ppm)	500 ppm
<b>Manitoba</b>	OEL TWA (ppm)	400 ppm
<b>New Brunswick</b>	OEL STEL (mg/m <sup>3</sup> )	2050 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL (ppm)	500 ppm
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	1640 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (ppm)	400 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL (ppm)	500 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA (ppm)	400 ppm
<b>Nova Scotia</b>	OEL STEL (ppm)	500 ppm
<b>Nova Scotia</b>	OEL TWA (ppm)	400 ppm
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	2049 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL (ppm)	500 ppm
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	1640 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (ppm)	400 ppm
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	2049 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL (ppm)	500 ppm
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	1640 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA (ppm)	400 ppm
<b>Ontario</b>	OEL STEL (ppm)	500 ppm
<b>Ontario</b>	OEL TWA (ppm)	400 ppm
<b>Prince Edward Island</b>	OEL STEL (ppm)	500 ppm
<b>Prince Edward Island</b>	OEL TWA (ppm)	400 ppm

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Québec	VECD (mg/m <sup>3</sup> )	2050 mg/m <sup>3</sup>
Québec	VECD (ppm)	500 ppm
Québec	VEMP (mg/m <sup>3</sup> )	1640 mg/m <sup>3</sup>
Québec	VEMP (ppm)	400 ppm
Saskatchewan	OEL STEL (ppm)	500 ppm
Saskatchewan	OEL TWA (ppm)	400 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	500 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	1600 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	400 ppm

### Exposure Controls

**Appropriate Engineering Controls:** Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Face shield. Insufficient ventilation: wear respiratory protection. Full protective flameproof clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Gas (Aerosol)
Appearance	: Clear to pale yellow
Odor	: Mild solvent
Odor Threshold	: Not available
pH	: Not applicable
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Propellant: -25 °C (-13 °F); Concentrate: 56 °C (132.8 °F)
Flash Point	: Propellant: -105 °C (-157 °F); Concentrate: -17 °C (1.4 °F)
Auto-ignition Temperature	: Concentrate: >203 °C (397 °F)
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Propellant: 1.8%; Concentrate: 1.0%
Upper Flammable Limit	: Propellant: 18.2%; Concentrate: 12.8%
Vapor Pressure	: Propellant: 70 psig (3620 mmHg) @20 °C; Concentrate: 184 mmHg @20 °C
Relative Vapor Density at 20 °C	: Not available
Relative Density	: 0.82 g/mL (Concentrate)
Specific Gravity	: 0.82 @ 20C (Concentrate)

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<b>Solubility</b>	: Not soluble in water
<b>Partition Coefficient: N-Octanol/Water</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Do not subject aerosol products to mechanical impact
<b>Explosion Data – Sensitivity to Static Discharge</b>	: Yes, in certain circumstances product can ignite due to static discharge.
<b>VOC Content (SCAQMD Rule 1168)</b>	: 395 g/L (3.30 lbs/gal)
<b>VHAP Content</b>	: 0.0 lbs/lb solids

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

**Chemical Stability:** Extremely flammable gas.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

**Incompatible Materials:** strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). May release poisonous hydrogen sulfide. Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons. . Sulfur oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified.

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** May cause drowsiness or dizziness.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Symptoms:** Not classified.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

Dimethyl ether (115-10-6)	
LC50 Inhalation Rat	308.5 mg/l/4h
Acetone (67-64-1)	
LD50 Oral Rat	5800 mg/kg
LD50 Dermal Rabbit	15688 mg/kg
LC50 Inhalation Rat	44 g/m <sup>3</sup>
n-Heptane (142-82-5)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	3000 mg/kg
LC50 Inhalation Rat	103 g/m <sup>3</sup> (Exposure time: 4 h)

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### Acetone (67-64-1)

#### OSHA Specifically Regulated Carcinogen List

In OSHA Specifically Regulated Carcinogen list.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### Acetone (67-64-1)

LC50 Fish 1	4144.846 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	1679.66 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC 50 Fish 2	6210 (6210 - 8120) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	12600 (12600 - 12700) mg/l (Exposure time: 48 h - Species: Daphnia magna)

### n-Heptane (142-82-5)

LC50 Fish 1	375.0 mg/l (Exposure time: 96 h - Species: Cichlid fish)
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### Persistence and Degradability

### Acetone (67-64-1)

Persistence and Degradability	Readily biodegradable in water.
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### Bioaccumulative Potential

### Dimethyl ether (115-10-6)

Log Pow	-0.18
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### Acetone (67-64-1)

BCF Fish 1	0.69
Log Kow	-0.24

### n-Heptane (142-82-5)

Log Pow	4.66
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**Mobility in Soil:** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Handle empty containers with care because residual product is flammable.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

Proper Shipping Name	: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.(Petroleum Gases, Liquefied; Acetone)
Hazard Class	: 2.1
Identification Number	: UN3501
Label Codes	: 2.1
Marine Pollutant	: Marine pollutant
ERG Number	: 115



### In Accordance with IMDG

Proper Shipping Name	: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.(Petroleum Gases, Liquefied; Acetone)
Hazard Class	: 2
Identification Number	: UN3501
Label Codes	: 2.1
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Marine pollutant	: Marine pollutant



### In Accordance with IATA



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**Proper Shipping Name** : CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.(Petroleum Gases, Liquefied; Acetone)  
**Identification Number** : UN3501  
**Hazard Class** : 2.1  
**Label Codes** : 2.1



\*According to IATA, Forbidden to transport via passenger craft. If shipping on cargo aircraft, adhere to special provisions A1 and A187.

### In Accordance with TDG

**Proper Shipping Name** : CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.(Petroleum Gases, Liquefied; Acetone)  
**Hazard Class** : 2.1  
**Identification Number** : 3501  
**Label Codes** : 2.1  
**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard
<b>Propane (74-98-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Butane (106-97-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Dimethyl ether (115-10-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Resin acids and rosin acids, esters with pentaerythritol (8050-26-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Acetone (67-64-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>Heptane, branched, cyclic and linear (426260-76-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>n-Heptane (142-82-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

### US State Regulations

<b>Propane (74-98-6)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Butane (106-97-8)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Dimethyl ether (115-10-6)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

# HELMITAC 1620

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

<b>Acetone (67-64-1)</b>
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
<b>n-Heptane (142-82-5)</b>
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

### Canadian Regulations

<b>Propane (74-98-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Butane (106-97-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Dimethyl ether (115-10-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Resin acids and rosin acids, esters with pentaerythritol (8050-26-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Acetone (67-64-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
Listed on the Canadian IDL (Ingredient Disclosure List)
IDL Concentration 1 %
<b>Heptane, branched, cyclic and linear (426260-76-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>n-Heptane (142-82-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
Listed on the Canadian IDL (Ingredient Disclosure List)
IDL Concentration 1 %

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<b>Revision Date</b>	: 11/01/2017
<b>Other Information</b>	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H380	May displace oxygen and cause rapid suffocation

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2015