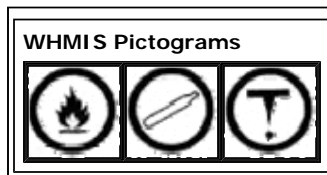


MSDS Name: Web Spray Adhesive

Manufacturer Name: Fastenal

<b>Components:</b>	
:	Web Spray Adhesive
:	I-Chem Heavy Duty Spray (##ICA315)

ACTIO MSDS ID: 886246

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## SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

(N/A)

**Product Name:** Web Spray Adhesive  
**Distributor Name:** Fastenal Company  
**Distributor Address:** Winona, MN 55987, USA  
  
**Distributor Telephone:** 1-877-Fastenal  
**Revision Date:** August 8, 2005  
 August 8, 2008 (Expiry Date)  
 Revision ##: 1  
  
**Manufacturer Name:** Fastenal  
**Address:** Winona, MN 55987, USA  
 Emergency Phone: 1-813-248-0585

**NFPA****3****2 0**

**General Use:** Adhesive  
**Business Phone:** 1-877-Fastenal  
 NFPA 704: National Fire Protection Association  
 Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme  
**Product Codes:** 0605041

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## SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

: (N/A)

Ingredient Name	CAS#	Ingredient Percent
Acetone	67-64-1	15 - 40% by Weight
<b>EC Index Number:</b> 1		
Propane	74-98-6	15 - 40% by Weight

EC Index Number:	1		
n-Butane		106-97-8	7 - 13% by Weight
EC Index Number:	1		
Heptane		142-82-5	7 - 13% by Weight
EC Index Number:	1		
Isobutane		75-28-5	7 - 13% by Weight
EC Index Number:	1		

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### SECTION 3 : HAZARDS IDENTIFICATION

: (N/A)

<b>Emergency Overview:</b>	DANGER EXTREMELY FLAMMABLE AEROSOL. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED. HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. Do not puncture. Do not burn. Store away from heat.
<b>Environment Hazards:</b>	Potential Environmental Effects: See Section 12 for more information.  This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Applies to All Ingredients :

<b>Route of Exposure:</b>	Likely Routes of Exposure: Skin contact, skin absorption, eye contact, and inhalation.
<b>Potential Health Effects:</b>	See Section 11 for more information.
<b>Eye Contact:</b>	May irritate eyes.
<b>Skin Contact:</b>	May irritate skin.
<b>Inhalation:</b>	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Aspiration of material into lungs can cause chemical pneumonitis.
<b>Ingestion:</b>	May cause stomach distress, nausea or vomiting.
<b>Chronic Health Effects:</b>	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
<b>Target Organs:</b>	Not available.
<b>Signs/Symptoms:</b>	Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
<b>Aggravation of Pre-Existing Conditions:</b>	Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.

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### SECTION 4 : FIRST AID MEASURES

: (N/A)

<b>Eye Contact:</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Skin Contact:</b>	After contact with skin, wash immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, get medical attention.
<b>Inhalation:</b>	If breathed in, move person into fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
<b>Ingestion:</b>	If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce

	vomiting. Never give anything by mouth if victim is unconscious, or isconvulsing. If swallowed, rinse mouth with water (only if the person isconscious).
Note to Physicians:	Symptoms may be delayed.
Other First Aid:	General Advice: In case of accident or if you feel unwell, seek medical advice immediately(show the label or MSDS where possible).

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## SECTION 5 : FIRE FIGHTING MEASURES

: (N/A)

Fire:	Flammability: FLAMMABILITY as per USA FLAME PROJECTION TEST(aerosols): EXTREMELY FLAMMABLE. Flammable aerosol byWHMIS criteria.
Flash Point:	(Of concentrate): Not available.
Upper Flammable or Explosive Limit:	Not available.
Lower Flammable or Explosive Limit:	Not available.
Auto Ignition Temperature:	Not available.
Extinguishing Media:	Suitable: Powder, water spray, foam, carbon dioxide.
Unsuitable Media:	Not available.
Hazardous Combustion Byproducts:	Oxides of carbon.
Fire Fighting Instructions:	Pressurized container may explode when exposed to heat orflame. In case of fire and/or explosion do not breathe fumes.Firefighters should wear full protective clothing including selfcontained breathing apparatus.
Sensitivity to Impact:	Explosion Data: Sensitivity to Mechanical Impact: Not available.
Static Discharge Effects:	Explosion Data: Sensitivity to Static Discharge: Not available.

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

: (N/A)

Personal Precautions:	Use personal protection recommended in Section 8. Isolatearea. Remove sources of ignition. Keep unnecessarypersonnel away. Ruptured cylinders may rocket.
Spill Cleanup Measures:	Methods for Containment: Prevent further leakage or spillage if safe to do so. Use sand,perlite or vermiculite as an absorbent for large spills of thismaterial.  Methods for Clean-Up: Sweep up or gather material and place in appropriate containerfor disposal. Allow gas to dissipate into the atmosphere.
Environmental Precautions:	Many gases are heavier than air and will spread along groundand collect in low or confined areas (sewers, basements,tanks).  Other Information: Not available.

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## SECTION 7 : HANDLING and STORAGE

: (N/A)

Handling:	Keep away from heat, open flames or other sources of ignition. Avoid contact with eyes. Avoidcontact with skin. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in a wellventilatedarea. When using do not eat or drink. Wash hands before breaks and immediately afterhandling the product.
Storage:	Keep out of the reach of children. Do not store at temperatures above 49 deg C. Store in a cool, dry, well-ventilated area. Keep away from food, drink and animal feedingstuffs.
Hygiene Practices:	General Hygiene Considerations: Handle in accordance with good industrial hygiene andsafety practice.

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## SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

: (N/A)

<b>Engineering Controls:</b>	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
<b>Skin Protection Description:</b>	Wear suitable protective clothing.
<b>Hand Protection Description:</b>	Wear suitable gloves.
<b>Eye/Face Protection:</b>	Wear safety glasses with side shields.
<b>Protective Clothing/Body Protection:</b>	Body Protection: Wear suitable protective clothing.
<b>Respiratory Protection:</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
	General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

### Ingredient Guidelines

#### Ingredient: Acetone

Guideline Type:	OSHA PEL-TWA
Guideline Information:	1000 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	750 ppm

#### Ingredient: Heptane

Guideline Type:	OSHA PEL-TWA
Guideline Information:	500 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	400 ppm

#### Ingredient: Isobutane

Guideline Type:	OSHA PEL-TWA
Guideline Information:	Not available
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	Not available

#### Ingredient: n-Butane

Guideline Type:	OSHA PEL-TWA
Guideline Information:	800 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	1000 ppm

#### Ingredient: Propane

Guideline Type:	OSHA PEL-TWA
Guideline Information:	1000 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	1000 ppm

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## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

: (N/A)

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<b>Physical State/Appearance:</b>	Opaque.
<b>Color:</b>	Straw.
<b>Odor:</b>	Cetona.
<b>Physical State:</b>	Gas/Pressurized Liquid.
<b>pH:</b>	pH (of concentrate): Not available.
<b>Vapor Pressure:</b>	(Of concentrate): Not available.
<b>Vapor Density:</b>	(Of concentrate): Not available.
<b>Flash Point:</b>	(Of concentrate): Not available.
<b>Auto Ignition Temperature:</b>	Not available.
<b>Upper Explosive Limit:</b>	Not available.
<b>Lower Explosive Limit:</b>	Not available.
<b>Boiling Point:</b>	(Of concentrate): Not available.

Freezing Point:	(Of concentrate): Not available.
Solubility:	(Of concentrate): In Water (of concentrate): Partial.
Specific Gravity:	(Of concentrate): 0.853
Evaporation Point:	(Of concentrate): Not available.
Percent Volatile:	Wt. %: 79.93
Volatile Organic Compound Content:	Wt. %: 54.9
Viscosity:	(Of concentrate): Water thin.
Odor Threshold:	Not available.
Coefficient of Water/Oil	Not available.
Distribution:	

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## SECTION 10 : STABILITY and REACTIVITY

: (N/A)

Chemical Stability:	Stable under recommended storage conditions. Contents underpressure. Container may explode if heated. Do not puncture. Donot burn.
Incompatibilities with Other Materials:	Oxidizers.
Reactivity:	Conditions of Reactivity: No dangerous reaction known under conditions of normal use.
	Possibility of Hazardous Reactions: Will not occur.
Hazardous Decomposition Products:	Oxides of carbon.

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## SECTION 11 : TOXICOLOGICAL INFORMATION

: (N/A)

### Applies to all ingredients:

Eye Effect:	ACUTE EXPOSURE: May irritate eyes. Symptoms may include discomfort or pain, excess blinking andtear production, with marked redness and swelling of the conjunctiva.
Skin Effects:	ACUTE EXPOSURE: May irritate skin. Symptoms may include redness, edema, drying, defatting andcracking of the skin.
Ingestion Effects:	ACUTE EXPOSURE: Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Inhalation Effects:	ACUTE EXPOSURE: Excessive intentional inhalation may cause respiratory tract irritation and centralnervous system effects (headache, dizziness). Aspiration of material into lungscan cause chemical pneumonitis.
Chronic Effects:	Not hazardous by WHMIS/OSHA criteria.
Carcinogenicity:	Not hazardous by WHMIS/OSHA criteria.
Mutagenicity:	Not hazardous by WHMIS/OSHA criteria.
Teratogenicity:	Not hazardous by WHMIS/OSHA criteria.
Embryo Toxicity:	Not hazardous by WHMIS/OSHA criteria.
Sensitization:	Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.  Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.
Reproductive Toxicity:	Not hazardous by WHMIS/OSHA criteria.
Other Toxicological Information:	Target Organs: Not available.  Toxicologically Synergistic Materials: Not available.

[Acetone](#) :

**Ingestion Effects:** ACUTE EXPOSURE:  
LD50 (oral): 5800 mg/kg, rat

**Inhalation Effects:** ACUTE EXPOSURE:  
LC50: Not available

**Carcinogenicity:** Chemical Listed as Carcinogen or Potential Carcinogen:  
NTP: No  
IARC: No  
OSHA: No  
ACGIH: No

**Propane :**

**Ingestion Effects:** ACUTE EXPOSURE:  
LD50 (oral): Not available

**Inhalation Effects:** ACUTE EXPOSURE:  
LC50: Not available

**Carcinogenicity:** Chemical Listed as Carcinogen or Potential Carcinogen:  
NTP: No  
IARC: No  
OSHA: No  
ACGIH: No

**n-Butane :**

**Ingestion Effects:** ACUTE EXPOSURE:  
LD50 (oral): Not available

**Inhalation Effects:** ACUTE EXPOSURE:  
LC50: Not available

**Carcinogenicity:** Chemical Listed as Carcinogen or Potential Carcinogen:  
NTP: No  
IARC: No  
OSHA: No  
ACGIH: No

**Heptane :**

**Ingestion Effects:** ACUTE EXPOSURE:  
LD50 (oral): Not available

**Inhalation Effects:** ACUTE EXPOSURE:  
LC50: 103 g/m<sup>3</sup> 4hrs, rat

**Carcinogenicity:** Chemical Listed as Carcinogen or Potential Carcinogen:  
NTP: No  
IARC: No  
OSHA: No  
ACGIH: No

**Isobutane :**

**Ingestion Effects:** ACUTE EXPOSURE:  
LD50 (oral): Not available

**Inhalation Effects:** ACUTE EXPOSURE:  
LC50: Not available

**Carcinogenicity:** Chemical Listed as Carcinogen or Potential Carcinogen:  
NTP: No  
IARC: No  
OSHA: No  
ACGIH: No

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**SECTION 12 : ECOLOGICAL INFORMATION**

: (N/A)

**Ecotoxicity:** This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

**Environmental Fate:** Mobility in Environment: Not available.  
Persistence/Degradability: Not available.  
  
Bioaccumulation/Accumulation: Not available.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

: (N/A)

**Waste Disposal:** Disposal Instructions: This material and its container must be disposed of in a safe way. Dispose in accordance with all applicable regulations.

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**SECTION 14 : TRANSPORT INFORMATION** : (N/A)

**DOT Shipping Information:** DOT (Ground) Classification: ORM-D  
**IATA Shipping Name:** AEROSOLS, flammable  
**IATA Hazard Class:** 2.1  
**IATA UN Number:** UN1950  
**Canadian TDG:** TDG (Ground) Classification: Limited Quantity

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**SECTION 15 : REGULATORY INFORMATION** : (N/A)

**Applies to All Ingredients :**

**TSCA 8(b): Inventory Status (Yes/No):** Yes

**SARA:** SARA Title III

**OSHA 29 CFR 1200:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

**State:** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):  
 This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**Canada WHMIS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification:  
 Class A - Compressed Gas  
 Class B5 - Flammable Aerosol  
 Class D2B - Skin/Eye Irritant

**Canada DSL:** Yes

**Canada NDSL:** No

NFPA 704: National Fire Protection Association  
 Health - 2, Fire - 3, Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**Acetone :**

**Section 304 CERCLA RQ:** 5,000 lbs.

**Section 313 Toxic Release Form (Yes/No):** No

**Propane :**

**Section 313 Toxic Release Form (Yes/No):** No

**n-Butane :**

**Section 313 Toxic Release Form (Yes/No):** No

**Isobutane :**

**Section 313 Toxic Release Form (Yes/No):** No

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**SECTION 16 : ADDITIONAL INFORMATION** : (N/A)

**NFPA:**  
**Health:** 2 = moderate

**Fire Hazard:** 3 = severe  
**Reactivity:** 0 = minimal  
**MSDS Revision Date:** August 8, 2005  
 August 8, 2008 (Expiry Date)  
 Revision ##: 1  
**MSDS Author:** Prepared by:  
 Nexreg Compliance Inc.  
 Phone: (519) 488-5126  
 Web: www.nexreg.ca

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

NFPA 704: National Fire Protection Association  
 Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Formula ##: A00315

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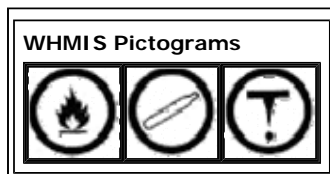
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ACTIO MSDS ID: 795098

**View Section :**

**1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16**

**SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION**

(N/A)

**Product Name:** I-Chem Heavy Duty Spray (##ICA315)

**Distributor Name:** Amrep, Inc.

**Distributor Address:** 990 Industrial Park Drive  
Marietta, GA 30062

**NFPA**

D.O.T. Emergency Phone:  
 CHEM TEL (800) 255-3924  
 INTERNATIONAL: +01-813-248-0584

**3**

**Distributor Telephone:** (770) 422-2071

**Hours Of Operation:** (Mon - Fri / 8am - 5pm ET)

**2 0**

**Revision Date:** October 20, 2007

Revision ##: 1.0

Expiry Date: October 20, 2010

**Manufacturer Name:** Amrep, Inc.

**HMIS**

**Address:** 990 Industrial Park Drive  
Marietta, GA 30062

D.O.T. Emergency Phone:  
 CHEM TEL (800) 255-3924  
 INTERNATIONAL: +01-813-248-0584

<b>HEALTH</b>	<b>2</b>
<b>FIRE</b>	<b>3</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PPE</b>	<b>B</b>

**General Use:** Product Use: Adhesive.

**Business Phone:** (770) 422-2071

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Product Codes: A00315

[To Top of page](#)**SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS** : (N/A)

Ingredient Name	CAS#	Ingredient Percent
Acetone EC Index Number: 1	67-64-1	10 - 30% by Weight
Isobutane EC Index Number: 1	75-28-5	10 - 30% by Weight
Propane EC Index Number: 1	74-98-6	10 - 30% by Weight
Heptane EC Index Number: 1	142-82-5	7 - 13% by Weight

[To Top of page](#)**SECTION 3 : HAZARDS IDENTIFICATION** : (N/A)

<b>Emergency Overview:</b>	DANGER EXTREMELY FLAMMABLE. HARMFUL BY INHALATION. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.
<b>Environment Hazards:</b>	Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.
<b>Potential Health Effects:</b>	See Section 11 for more information. HMIS: See Section 15

**Applies to All Ingredients :**

<b>Route of Exposure:</b>	Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.
<b>Potential Health Effects:</b>	
<b>Eye Contact:</b>	May cause eye irritation.
<b>Skin Contact:</b>	May cause skin irritation.
<b>Inhalation:</b>	Harmful by inhalation. May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.
<b>Ingestion:</b>	Not a normal route of exposure. Harmful: may cause lung damage ifswallowed.
<b>Chronic Health Effects:</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Target Organs:</b>	Skin, eyes, gastrointestinal tract, respiratory system.
<b>Signs/Symptoms:</b>	Symptoms may include discomfort or pain, excess blinking and tearproduction, with marked redness and swelling of the conjunctiva. Handling can cause dry skin.Vapours may cause drowsiness and dizziness.
<b>Aggravation of Pre-Existing Conditions:</b>	Asthma. Allergies.

[To Top of page](#)**SECTION 4 : FIRST AID MEASURES** : (N/A)

<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call physician if irritation develops and persists.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Note to Physicians:</b>	Symptoms may not appear immediately.
<b>Other First Aid:</b>	General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

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## SECTION 5 : FIRE FIGHTING MEASURES

: (N/A)

<b>Fire:</b>	Flammability: Flammable by WHMIS/OSHA criteria.
<b>Flash Point:</b>	Not available.
<b>Upper Flammable or Explosive Limit:</b>	Not available.
<b>Lower Flammable or Explosive Limit:</b>	Not available.
<b>Auto Ignition Temperature:</b>	Not available.
<b>Extinguishing Media:</b>	Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.
<b>Unsuitable Media:</b>	Not available.
<b>Hazardous Combustion Byproducts:</b>	May include, and are not limited to: oxides of carbon.
<b>Fire Fighting Instructions:</b>	Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
<b>Sensitivity to Impact:</b>	Sensitivity to Mechanical Impact: Not available.
<b>Static Discharge Effects:</b>	Sensitivity to Static Discharge: Not available.

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

: (N/A)

<b>Personal Precautions:</b>	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.
<b>Spill Cleanup Measures:</b>	Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).  Methods for Clean-Up: Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.
<b>Environmental Precautions:</b>	Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
<b>Other Precautions:</b>	Not available.

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## SECTION 7 : HANDLING and STORAGE

: (N/A)

<b>Handling:</b>	Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.
<b>Storage:</b>	Keep out of the reach of children. Keep container in a well-ventilated place. Do not store at temperatures above 49 deg C/120 deg F.
<b>Hygiene Practices:</b>	General Hygiene Considerations: Handle according to established industrial

hygiene and safety practices.

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## SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

: (N/A)

<b>Engineering Controls:</b>	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
<b>Skin Protection Description:</b>	Wear suitable protective clothing.
<b>Hand Protection Description:</b>	Wear suitable gloves.
<b>Eye/Face Protection:</b>	Wear eye/face protection.
<b>Protective Clothing/Body Protection:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
	General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.
	HMIS: See Section 15

### Ingredient Guidelines

#### Ingredient: Acetone

Guideline Type:	OSHA PEL-TWA
Guideline Information:	1000 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	500 ppm

#### Ingredient: Heptane

Guideline Type:	OSHA PEL-TWA
Guideline Information:	400 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	400 ppm

#### Ingredient: Isobutane

Guideline Type:	OSHA PEL-TWA
Guideline Information:	Not available.
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	Not available.

#### Ingredient: Propane

Guideline Type:	OSHA PEL-TWA
Guideline Information:	1000 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	1000 ppm

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## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

: (N/A)

<b>Physical State/Appearance:</b>	Clear.
<b>Color:</b>	Colorless to light yellow.
<b>Odor:</b>	Solvent.
<b>Physical State:</b>	Gas/Pressurized Liquid.
<b>pH:</b>	Not applicable.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Auto Ignition Temperature:</b>	Not available.
<b>Upper Explosive Limit:</b>	Not available.

Lower Explosive Limit:	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Solubility:	In Water: Insoluble.
Specific Gravity:	0.82 (Concentrate only)
Evaporation Point:	Not available.
Percent Volatile:	wt. %: Not available.
Volatile Organic Compound Content:	wt. %: 53.2% (US federal/CARB/OTC/LADCO)
Viscosity:	Not available.
Odor Threshold:	Not available.
Coefficient of Water/Oil	Not available.
Distribution:	

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## SECTION 10 : STABILITY and REACTIVITY

: (N/A)

Chemical Stability:	Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.
Incompatibilities with Other Materials:	Oxidizers.
Reactivity:	Conditions of Reactivity: Heat. Incompatible materials.  Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.
Hazardous Decomposition Products:	May include, and are not limited to: oxides of carbon.

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## SECTION 11 : TOXICOLOGICAL INFORMATION

: (N/A)

### **Applies to all ingredients:**

Eye Effect:	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Effects:	May cause skin irritation. Handling can cause dry skin.
Ingestion Effects:	Not a normal route of exposure. Harmful: may cause lung damage if swallowed.
Inhalation Effects:	Harmful by inhalation. May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis. Vapours may cause drowsiness and dizziness.
Chronic Effects:	Not hazardous by WHMIS/OSHA criteria.
Carcinogenicity:	Not hazardous by WHMIS/OSHA criteria.
Mutagenicity:	Not hazardous by WHMIS/OSHA criteria.
Teratogenicity:	Not hazardous by WHMIS/OSHA criteria.
Embryo Toxicity:	Not hazardous by WHMIS/OSHA criteria.
Sensitization:	Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.  Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.
Reproductive Toxicity:	Not hazardous by WHMIS/OSHA criteria.
Other Toxicological Information:	Target Organs: Not available.  Toxicologically Synergistic Materials: Not available.
<b>Acetone :</b>	
Ingestion Effects:	LD50 (oral): 5800 mg/kg, rat
Inhalation Effects:	LC50: Not available.

<b>Carcinogenicity:</b>	Chemical Listed as Carcinogen or Potential Carcinogen *: Not listed.
<b><u>Isobutane :</u></b>	
<b>Ingestion Effects:</b>	LD50 (oral): Not available.
<b>Inhalation Effects:</b>	LC50: Not available.
<b>Carcinogenicity:</b>	Chemical Listed as Carcinogen or Potential Carcinogen *: Not listed. Not listed.
<b><u>Propane :</u></b>	
<b>Ingestion Effects:</b>	LD50 (oral): Not available.
<b>Inhalation Effects:</b>	LC50: Not available.
<b>Carcinogenicity:</b>	Chemical Listed as Carcinogen or Potential Carcinogen *: Not listed.
<b><u>Heptane :</u></b>	
<b>Ingestion Effects:</b>	LD50 (oral): Not available.
<b>Inhalation Effects:</b>	LC50: 103 g/m3 4hrs, rat
<b>Carcinogenicity:</b>	Chemical Listed as Carcinogen or Potential Carcinogen *: Not listed.
<b>Comments:</b>	* See Section 15 for more information.

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## SECTION 12 : ECOLOGICAL INFORMATION : (N/A)

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<b>Ecotoxicity:</b>	May cause long-term adverse effects in the aquatic environment
<b>Bioaccumulation:</b>	Bioaccumulation/Accumulation: Not available.
<b>Biodegradation:</b>	Persistence/Degradability: Not available. Mobility in Environment: Not available.

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## SECTION 13 : DISPOSAL CONSIDERATIONS : (N/A)

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<b>Waste Disposal:</b>	This material must be disposed of in accordance with all local, state, provincial, and federal regulations.
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## SECTION 14 : TRANSPORT INFORMATION : (N/A)

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<b>DOT Hazard Class:</b>	ORM-D
<b>Canadian Hazard Class:</b>	Limited Quantity

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## SECTION 15 : REGULATORY INFORMATION : (N/A)

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### Applies to All Ingredients :

<b>OSHA 29 CFR 1200:</b>	US: MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).
<b>State:</b>	California Proposition 65: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
<b>Canada WHMIS:</b>	Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.  WHMIS Classification(s): Class A - Compressed Gas Class B5 - Flammable Aerosol Class D2B - Skin/Eye Irritant  HMIS - Hazardous Materials Identification System: Health - 2 Flammability - 3 Physical Hazard - 0 PPE - B

NFPA - National Fire Protection Association:

Health - 2

Fire - 3

Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**Acetone :**

TSCA 8(b): Inventory Status (Yes/No): Yes

Section 302 Extremely Hazardous Substances (TPQ): (lbs.): Not listed.

Section 304 EHS RQ: (lbs.): Not listed.

Section 304 CERCLA RQ: 5,000 lbs.

Section 313 Toxic Release Form: Section 313: Not listed.

Canada DSL: Yes

**Isobutane :**

TSCA 8(b): Inventory Status (Yes/No): Yes

Section 302 Extremely Hazardous Substances (TPQ): (lbs.): Not listed.

Section 304 EHS RQ: (lbs.): Not listed.

Section 304 CERCLA RQ: 5,000 lbs.

Section 313 Toxic Release Form: Section 313: Not listed.

Canada DSL: Yes

**Propane :**

TSCA 8(b): Inventory Status (Yes/No): Yes

Section 302 Extremely Hazardous Substances (TPQ): (lbs.): Not listed.

Section 304 EHS RQ: (lbs.): Not listed.

Section 304 CERCLA RQ: (lbs.): Not listed.

Section 313 Toxic Release Form: Section 313: Not listed.

Canada DSL: Yes

**Heptane :**

TSCA 8(b): Inventory Status (Yes/No): Yes

Section 302 Extremely Hazardous Substances (TPQ): (lbs.): Not listed.

Section 304 EHS RQ: (lbs.): Not listed.

Section 304 CERCLA RQ: (lbs.): Not listed.

Section 313 Toxic Release Form: Section 313: Not listed.

Canada DSL: Yes

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O): Occupational Safety and Health Administration.

ACGIH (G): American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I): International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to

humans.

NTP (N): National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

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## SECTION 16 : ADDITIONAL INFORMATION

: (N/A)

### HMIS:

Health Hazard: 2 = Moderate

Fire Hazard: 3 = Severe

Reactivity: 0 = Minimal

Personal Protection: B

### NFPA:

Health: 2 = Moderate

Fire Hazard: 3 = Severe

Reactivity: 0 = Minimal

MSDS Revision Date: October 20, 2007  
Revision ##: 1.0

Expiry Date: October 20, 2010

MSDS Author: Prepared by: Nexreg Compliance Inc.

Prepared for: Amrep, Inc.

Phone: (770) 422-2071 (Mon - Fri / 8am - 5pm ET)

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Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

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