

## UN-LOCK

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 1 - IDENTIFICATION

### 1.1 Product Identifier

Product Name : UN-LOCK  
Manufacturer Product Number : 1070A

### 1.2 Other Means of Identification

### 1.3 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use : Lubricant, penetrant, rust protector and moisture displacer  
Restrictions on Use : None Identified

### 1.4 Supplier Details

	Manufacturer Details	Supplier Details
Company Name	Chem-Pak Inc	Chem-Pak Inc
Address	242 Corning Way, Martinsburg, WV 25405 - United States	242 Corning Way, Martinsburg, WV 25405 - United States
Phone Number	304-262-1880	304-262-1880
Fax Number	304-262-9643	304-262-9643
Email	msds@chem-pak.com	msds@chem-pak.com
Website	http://www.chem-pak.com	http://www.chem-pak.com

### 1.5 24 hr Emergency Phone Number

Emergency Number : 800-255-3924  
Chem-Tel

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Press. Gas (Comp.)	H280	Physical Hazards	Gases under pressure Compressed gas
Acute Tox. 4 (Inhalation:Vapour)	H332	Health Hazards	Acute toxicity (inhalation:vapour) Category 4
Asp. Tox. 1	H304	Health Hazards	Aspiration hazard Category 1
Aquatic Acute 2	H401	Environmental Hazards	Hazardous to the aquatic environment - Acute Hazard Category 2

### 2.2 Label Elements

#### Hazard Pictograms



GHS04



GHS07



GHS08

#### Signal Word

**Danger**

#### Hazard Statements

H280 : Contains gas under pressure; may explode if heated  
H304 : May be fatal if swallowed and enters airways  
H332 : Harmful if inhaled  
H401 : Toxic to aquatic life

#### Precautionary Statements

P261 : Avoid breathing spray.  
P271 : Use only outdoors or in a well-ventilated area.  
P273 : Avoid release to the environment.  
P301+P310 : If swallowed: Immediately call POISON CENTER  
P304+P340 : If inhaled: Remove person to fresh air and keep comfortable for breathing



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P312 : Call physician if you feel unwell  
P331 : Do NOT induce vomiting.  
P403 : Store in a well-ventilated place.  
P410+P403 : Protect from sunlight. Store in a well-ventilated place.  
P501 : Dispose of contents/container to local regulations

### 2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

### 2.4 Unknown acute toxicity

6% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
6% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
6% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance / Mixture

Substance / Mixture : Mixture

### 3.2 Composition

Substance name	CAS Number	% wt*	Classification
Hydrotreated Light Petroleum Distillate	64742-47-8	>= 60	Flam. Liq. 4, H227 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Hydrotreated Heavy Naphthenic Distillate	64742-52-5	10 - 30	Asp. Tox. 1, H304
Nitrogen	7727-37-9	0.1 - 1	Press. Gas (Comp.), H280

Full text of hazard classes and H-statements : see section 16

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4 - FIRST-AID MEASURES

### 4.1 Description of First-Aid Measures

**General Measures** : Call a physician immediately.  
**Inhalation** : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.  
**Skin Contact** : Wash skin with plenty of water.  
**Eye Contact** : Rinse eyes with water as a precaution.  
**Ingestion** : Do NOT induce vomiting. Call a physician immediately.  
**First-Aid Responder Protection** : Wear adequate personal protective equipment based on the nature and severity of the emergency.

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

**Symptoms of Exposure** : Eye Irritation, Skin Irritation, Headache, Dizziness, Nausea, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage.  
**Delayed Effects** : No known delayed effects.  
**Immediate Effects** : No known immediate effects.  
**Chronic Effects** : Methyl alcohol may be fatal or cause blindness if swallowed.  
**Target Organs** : Central Nervous System, Eyes, Gastrointestinal Tract, Respiratory System, Skin.

### 4.3 Indication of Immediate Medical Attention and Special Treatment

**Notes to Physician** : Treat symptomatically.  
**Specific Treatments/Antidotes** : No Information Available.  
**Medical Conditions Aggravated** : May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

## SECTION 5 - FIRE-FIGHTING MEASURES





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## 5.1 Suitable Extinguishing Media

- Extinguishing Media : Product is non-flammable. Use extinguishing media suitable for surrounding materials.  
Unsuitable Media : Avoid extinguishing media unsuitable for surrounding materials.

## 5.2 Specific Hazards Arising from the Chemical or Mixture

- Hazardous Combustion Products : Decomposition products may include: oxides of carbon, smoke, vapors. See also Section 10.6.  
Specific Hazards During Firefighting : Contents are non-flammable. No known fire hazards.

## 5.3 Special Protective Actions for Fire-Fighters

- Firefighting Instructions : Product is non-flammable. Use extinguishing media suitable for surrounding materials.  
Protection during Firefighting : Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

- For Non-Emergency Personnel : Do not touch or walk through spill. Keep unnecessary and unprotected personnel from entering. No action should be taken involving any personnel without suitable training. Remove ignition sources and provide adequate ventilation only if it is safe to do so.  
For Emergency Personnel : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

### 6.2 Environmental Precautions

- Environmental Precautions : Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

### 6.3 Methods and Materials for Containment and Cleaning up

- Containment Procedures : Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents.  
Cleanup Procedures : Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Soak up material with inert absorbent and place in safety containers for proper disposal. Sweep up material and wash floor with soap and water. Place in container for waste disposal.  
Other Information : Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned.  
Prohibited Materials : Combustible absorbent material such as sawdust. Use of equipment that may cause sparking.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

- General Handling Precautions : KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation.  
Hygiene Recommendations : Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.

### 7.2 Conditions for Safe Storage Including Any Incompatibilities

- Storage Requirements : Storage of individual cans should be done in an area below 55°C (120 °F), and away from heat sources. Ensure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended.  
Incompatibilities : Segregate storage away from materials indicated in Section 10.  
NFPA 30B Classification : This product is classified as a Level 3 Aerosol per NFPA 30B



## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

#### Hydrotreated Light Petroleum Distillate (64742-47-8)

ACGIH	ACGIH TWA (ppm)	200 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
California	California PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

#### Hydrotreated Heavy Naphthenic Distillate (64742-52-5)

ACGIH	ACGIH TWA (ppm)	5 mg/m <sup>3</sup> Oil Mist
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> Oil Mist
California	California PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2 Exposure Controls

<b>Engineering Measures</b>	: Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.
<b>Personal Protective Equipment</b>	
<b>Eye / Face Protection</b>	: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling.
<b>Hand Protection</b>	: Chemical-resistant gloves, tested according to ASTM F903 - 17.
<b>Remarks</b>	: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.
<b>Skin and Body Protection</b>	: For brief contact, no precautions other than clean body-covering clothing should be needed.
<b>Respiratory Protection</b>	: An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits.
<b>Compliance</b>	: If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.
<b>Other Protective Equipment</b>	: Safety showers and eye-wash stations should be available in the workplace near where the material will be used.
<b>Environmental Exposure Controls</b>	: Avoid release to the environment.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Physical Properties

Boiling Point	> 64.70 °C	Melting / Freezing Point	> -97.70 °C
Flash Point, Liquid	> 78.90 °C	Flash Point, Propellant	0.00 °C
Explosive Limits	LEL: 0.60 UEL: 36.00 vol %	Autoignition Temperature, Liquid	<= 231.00 °C
Flammability	Non-Flammable Aerosol	Density	0.851 g/cm <sup>3</sup>
Molecular Weight	Not Available	Weight	7.102 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (nBAC=1)	Not Available
Viscosity	Not Available	Partition Coefficient (Log Pow)	Not Available
Odor Threshold	Not Available	Refractive Index	Not Available
Physical State	Pressurized Product	Heat Of Combustion	17246.30 BTU/lb
Appearance / Color	Amber	Water Solubility	Not Available
Odor	Petroleum-like	Decomposition Temperature	Not Available

### 9.2 Environmental Properties

Percent Volatile	68.50 % wt	VOC Regulatory	2.74 g/L (0.02 lbs/gal)
Percent VOC	0.10 % wt	VOC Actual	0.87 g/L (0.01 lbs/gal)
Percent HAP	0.00 % wt	HAP Content	0.00 g/L (0.00 lbs/gal)
Global Warming Potential	0.00 GWP	Maximum Incremental Reactivity	0.8290 g O3/g
Ozone Depletion Potential	0.00 ODP		



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## SECTION 10 - STABILITY AND REACTIVITY

## 10.1 Reactivity

Reactivity : No specific test data related to reactivity is available for this products or its ingredients.

## 10.2 Chemical Stability

Chemical Stability : This product is stable.

## 10.3 Possibility of Hazardous Reactions

Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions are not expected to occur.

## 10.4 Conditions to Avoid

Conditions to Avoid : Electrostatic Discharge, Other Ignition Sources, Heat, Flames, Sparks.

## 10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Alkali Metals, Potassium t-Butoxide, Hydrogen Peroxide.

## 10.6 Hazardous Decomposition Products

Thermal Decomposition : Oxides of carbon, Formaldehyde.

## SECTION 11 - TOXICOLOGICAL INFORMATION

## 11.1 Information on Toxicological Effects

## Hydrotreated Light Petroleum Distillate (CAS: 64742-47-8 / EC: 265-149-8)

LD50 Oral (Rat)	> 5000 mg/kg (ECHA)
LD50 Dermal (Rabbit)	> 2000 mg/kg (ECHA)
LC50 Inhalation (Rat)	> 5.28 mg/l/4h (ECHA)

## Hydrotreated Heavy Naphthenic Distillate (CAS: 64742-52-5 / EC: 265-155-0)

LD50 Oral (Rat)	> 5000 mg/kg (ChemInfo)
LD50 Dermal (Rabbit)	> 2000 mg/kg (ChemInfo)
LC50 Inhalation (Rat)	5.7 mg/l/4h (Lit.)

Routes Of Exposure : Eye Contact, Ingestion, Skin Contact, Inhalation, Skin Absorption.

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure : See Section 4.2

Skin Corrosion/Irritation : Not classified

Eye Damage/Irritation : Not classified

Respiratory or Skin Sensitization : Not classified

Germ Cell Mutagenicity : Not classified

Reproductive Toxicity : Not classified

STOT-Single Exposure : Not classified

STOT-Repeated Exposure : Not classified

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

Vaporizer : Aerosol

Carcinogen Data : None of the ingredients in the product are listed with OSHA, IARC, NTP or ACGIH as being a suspected or known carcinogen in a concentration greater than 0.1% by weight.

## SECTION 12 - ECOLOGICAL INFORMATION

## 12.1 Ecotoxicity and Ecological Properties

## Nitrogen (7727-37-9)

Persistence and Degradability	Not applicable (gas).
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### Nitrogen (7727-37-9)

Biochemical Oxygen Demand	Not applicable
Chemical Oxygen Demand	Not applicable
Theoretical Oxygen Demand	Not applicable
Log Pow	0.67 (Experimental value)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).

### Hydrotreated Light Petroleum Distillate (64742-47-8)

LC50 Fish	2.9 mg/l (Sigma-Aldrich)
EC50 Other Aquatic Organisms	1.4 mg/l (Sigma-Aldrich)
Persistence and Degradability	Biodegradability 88% / 28 days.
Log Pow	6

### Hydrotreated Heavy Naphthenic Distillate (64742-52-5)

LC50 Fish	> 5000 mg/l Rainbow Trout - 96hr
EC50 Daphnia	> 1000 mg/l Water Flea - 48hr
Persistence and Degradability	Biodegradability in water: no data available.
Log Pow	> 6.5
Bioaccumulative Potential	No bioaccumulation data available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

Waste Disposal	: Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.
Waste Disposal Of Packaging	: In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.
Landfill Precautions	: Not Available.
Incineration Precautions	: ** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **.

## SECTION 14 - TRANSPORTATION INFORMATION

14.1 UN Number	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Number	: UN1950	UN1950	UN1950
14.2 UN Proper Shipping Name	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Proper Shipping Name	: Aerosols, Limited Quantity	Aerosols, Non-Flammable, Limited Quantity	Aerosols, Limited Quantity
14.3 Transport Hazard Class(es)	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Transport Hazard Class(es)	: 2.2	2.2	2.2
Labels	: None	2.2 - Non-flammable gas	None
Limited Quantity	: Yes	Yes	Yes
EmS Code	: Not Applicable	Not Applicable	F-D, S-U





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## 14.4 Packing Group

Packing Group : None IATA (AIR) None IMDG (OCEAN) None

## 14.5 Environmental Hazards

Marine Pollutant : No IATA (AIR) No IMDG (OCEAN) No

## 14.6 Special Precautions

Precautions : None Identified

## 14.7 Transport in Bulk

Remarks : Not applicable for product as supplied

## SECTION 15 - REGULATORY INFORMATION

### 15.1 Federal Regulations

SARA Section 313 : Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Methanol	CAS-No. 67-56-1	0.001 - 0.01%
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TSCA Section 12(b) : This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D

CERCLA Reportable Quantity : Chemical(s) subject to reporting requirements of Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) if released to the environment at or above the reportable quantity

Methanol	CAS-No. 67-56-1	5000 lb
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### 15.2 State Regulations

California Proposition 65 : This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

Methanol (67-56-1)	Developmental Toxicity	Yes	0.0017 %
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State Right-to-Know Lists : The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated

Nitrogen (7727-37-9)	U.S. - New Jersey - Right to Know Hazardous Substance List
Polytetrafluoroethylene (9002-84-0)	U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
Methyl Salicylate (119-36-8)	U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
Methanol (67-56-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16 - OTHER INFORMATION

Indication of changes :

Section	Changed item	Change
1	Supersedes	Modified
1	Revision date	Added
2.1	GHS-US classification	Modified
2.2	Precautionary statements (GHS US)	Modified
2.2	Hazard pictograms (GHS US)	Modified
2.2	Hazard statements (GHS US)	Modified
4.1	First-aid measures after inhalation	Modified
6	For containment	Added
6	Emergency procedures	Modified
7.1	Precautions for safe handling	Modified
8.2	Respiratory protection	Modified
9	Appearance	Added
9	Specific gravity / density	Modified
9	Auto-ignition temperature	Modified
9	Boiling point	Modified
9	Explosive limits (vol %)	Modified
9	Relative vapor density at 20 °C	Added
9	Melting point	Modified
9	Flash point	Modified
12.1	Ecology - general	Modified





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Select the Appropriate Proposition 65 Notice

Modified

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