



*Have fun in your garage!®*

Safety Data Sheet

## Headlight Restoration Kit

### SECTION 1: PRODUCT AND COMPANY INFORMATION

<b>Manufacturer</b>	Griot's Garage Inc., 3333 South 38 <sup>th</sup> St., Tacoma, WA · 800-345-5789 - <a href="http://www.griotsgarage.com">www.griotsgarage.com</a>
<b>Product Family</b>	Car Care
<b>Trade Name(s)</b>	Headlight Restoration Kit
<b>Product ID</b>	11409
<b>Recommended Uses</b>	Light restoration and repair coating
<b>Preparation Date</b>	April 3, 2015

**24-Hour Emergency Phone Number, Contact 800-345-5789**

### SECTION 2: HAZARD IDENTIFICATION

<b>Physical Hazards:</b>	Aerosol – 1	
<b>Health Hazards:</b>	Aspiration Hazard – 1	STOT RE - 2
	Carcinogenicity – 2	Toxic to Reproduction – 2
	Skin Irritation – 2	Eye Irritation – 2A
	STOT SE – 3	Acute Toxicity Inhalation – 4

**Signal Word - Danger!**

#### Hazard Statements:

Extremely flammable aerosol. Pressurized container: may burst if heated.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.



#### Precautionary Statements:

##### Prevention:

Obtain special instructions before use.  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
Pressurized container: Do not pierce or burn, even after use.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash hands thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Get medical advice/attention if you feel unwell.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.

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**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal:**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards Which Do Not Result in Classification:**

None known.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200)

Chemical Name	CAS No	Weight %
Dimethyl Ether	115-10-6	30-60
Acetone	67-64-1	15-40
Toluene	108-88-3	7-13
n-Butyl Acetate	123-86-4	5-10
Methyl Isobutyl Ketone	108-10-1	3-7
Ethyl 3-Ethoxy Propionate	212-112-9	1-5

\*\* If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

### SECTION 4: FIRST AID MEASURES

<b>General Advice</b>	If exposed or concerned: Get medical advice/attention.
<b>Eye Contact</b>	Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.
<b>Skin Contact</b>	Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.
<b>Ingestion</b>	Do not induce vomiting! Immediately have the victim drink plenty of water. Do not give milk or digestible oils. Keep airways free. Contact a physician. Never give anything by mouth if victim is rapidly losing consciousness, unconscious, or convulsing.

**First Responder Protection** Wear adequate personal protective equipment based on the nature and severity of the emergency.

**Most Important Symptoms and Effects, Both Acute and Delayed**

<b>Eye Contact</b>	Liquid contact may cause pain along with moderate eye irritation.
<b>Skin Contact</b>	Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or flaking of skin. May cause more severe response if confined to skin.
<b>Ingestion</b>	Due to being an aerosol, the product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, throat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspiration of vomit into the lungs may cause inflammation, and possible chemical pneumonitis, bronchopneumonia, or pulmonary edema.

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**Inhalation** Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion or death. Irritation of the mucous membranes, coughing, and dyspnea are also possible.

### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
<b>Specific Treatments/Antidotes</b>	Details on specific treatments and/or antidotes are not available.
<b>Immediate Medical Attention</b>	No information available.

## SECTION 5: FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water, Carbon dioxide (CO <sub>2</sub> ). Dry chemical, or universal aqueous/film forming foam.
<b>Unsuitable Extinguishing Media</b>	Water jet.

### Specific Hazards Arising from the Chemical or Mixture

<b>Decomposition Products</b>	Decomposition products may include oxides of carbon (CO, CO <sub>2</sub> ), smoke, and/or vapors.
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<b>Hazards from the Product</b>	Contents extremely flammable and under pressure. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapors heavier than air may spread along the ground and travel to ignition source.
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<b>Mechanical Impact Sensitivity</b>	Mechanical impact may cause aerosol can to rupture, resulting in a rapid release of its contents. In the presence of an ignition source, the liquid and/or vapor content may be ignited.
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<b>Static Discharge Sensitivity</b>	Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.
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### Special Protection Actions for Fire-Fighters

<b>Protective Actions</b>	Use water spray to cool fire and exposed aerosol containers, as contents can rupture violently from heat developed pressure.
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<b>Protective Equipment</b>	Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

<b>For Non-Emergency Personnel</b>	No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.
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<b>For Emergency Responders</b>	Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.
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<b>Environmental Precautions</b>	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
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### Methods and Materials for Containment and Cleaning Up

<b>Containment Procedures</b>	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. DO NOT use combustible material such as sawdust.
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<b>Cleanup Procedures</b>	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. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.
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<b>Other Information</b>	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. See Section 13 for disposal.
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## Prohibited Materials

Combustible absorbent material such as sawdust, use of equipment that may cause sparking.

## SECTION 7: HANDLING AND STORAGE

### 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. Wash hands after use.

#### 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.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

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 (Manufacturing and Storage of Aerosol Products) is recommended. This product is classified as a Level 3 Aerosol.

#### Incompatible Materials

Segregate storage away from materials indicated in Section 10.

## SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

### Control Parameters

#### Occupational Exposure Limits

ID	Canada				United States			
	Alberta OEL	BC TWA	Ontario TWA/AEC	Quebec TWA	OSHA PEL	NIOSH REL	NIOSH IDIH	ACGIH TLV
1	-	1000 ppm	-	-	-	-	-	-
2	750 ppm	250 ppm	500 ppm	500 ppm	1000 ppm	250 ppm	2500 ppm	500 ppm
3	100 ppm	20 ppm	50 ppm	50 ppm	200 ppm	1000 ppm	500 ppm	50 ppm
4	150 ppm	20 ppm	150 ppm	150 ppm	150 ppm	150 ppm	1700 ppm	150 ppm
5	50 ppm	50 ppm	50 ppm	50 ppm	100 ppm	50 ppm	50 ppm	(50) NIC ppm

### Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
2	Acetone in urine	End of Shift	50 mg/L	Ns
3	o-Cresol in urine	End of Shift	0.5 mg/L	B
5	MIBK in urine	End of Shift	2 mg/L	-

#### Other Control Parameters

Not available.

### Appropriate Engineering Controls

#### Engineering Measures

Use only with adequate ventilation. General ventilation (typically 10 air changes per hour)

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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.

### Individual protection measures

#### Hygiene Considerations

Avoid breathing vapors and contact with the skin and eyes. Always replace overcap when not in use. Keep out the reach of children. Wash hands after use.

#### Thermal Hazards

This product does not present a thermal hazard.

#### Respiratory Protection

An approved respirator with organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. If respirators are needed, in the United States compliance with OSHA standard 29 CFR 1910.134 is necessary.

#### Skin Protection

For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.

#### Eye/Face Protection

Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.

#### Other Protective Equipment

Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Aerosol	<b>Odor</b>	Solvent
<b>Appearance</b>	Liquid spray mist	<b>Odor Threshold</b>	Not Available
<b>Color</b>	Clear	<b>pH</b>	Not Available
<b>Melting Point/Freezing Point</b>	> -95.3°C (-139.6°F)	<b>Flash Point, Liquid</b>	<-17°C (1.4°F)
<b>Boiling Point</b>	>56.1°C (133.0°F)	<b>Flash Point, Propellant</b>	-41.1°C (-42.0°F)
<b>Auto-ignition Temperature, Liquid</b>	377.0°C (710.6°F)	<b>Explosive Limits</b>	1.05%-13.00%
<b>Flammability</b>	Extremely Flammable Aerosol	<b>Relative Density (H<sub>2</sub>O=1)</b>	0.791g/cc
<b>Molecular Weight</b>	Not Available	<b>Weight</b>	6.597 lbs/gal
<b>Vapor Pressure</b>	61.3 psig	<b>Vapor Density</b>	5.040 g/cc Maximum
<b>Evaporation Rate</b>	Not Available	<b>Partition Coefficient</b>	Not Available
<b>Viscosity</b>	Not Available	<b>Refractive Index</b>	Not Available
<b>Heat of Combustion</b>	Not Available	<b>Water Solubility</b>	Not Available
<b>Decomposition Temperature</b>	Not Available	<b>Percent Volatile</b>	83% Wt (88% Vol) Max
<b>VOC Content</b>	3.795 lbs/gal (454.626 g/L)	<b>Percent Volatile</b>	83% Wt (88% Vol) Max
<b>Percent VOC</b>	58% Wt (63% Vol) Max	<b>HAP Content</b>	0.991 lbs/gal (118.652 g/L)
<b>Solids/Non Volatile Content</b>	18% Wt (13% Vol) Max	<b>Maximum Incremental Reactivity</b>	1.114 g/O <sub>3</sub> /g

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

### Chemical Stability

### Hazardous Reactions

### Conditions to Avoid

### Incompatible Materials

No specific test data related to reactivity is available for this product or its ingredients.

This product is stable.

Under normal conditions and use, hazardous reactions are not expected to occur.

Keep away from heat, sparks, flame, and red hot metal.

Acids, Activated Carbon, Alkali Metals, Alkaline Earth Metals, Hexachloromelamine, Hydrogen Peroxide, Isoprene, Nitrates, Nitrogen Tetroxide, Powdered Metal Salts, Silver Perchlorate, Strong Acids, Strong Oxidizing Agents, Strong Reducing Agents, Sulfur Dichloride, Tetranitromethane, Trichloromelamine, Uranium Hexafluoride

### Decomposition Products

Oxides of Carbon, Acetic Acid, Explosive peroxides such as Methyl Isobutyl Peroxide, Formaldehyde fumes, Hydrogen Peroxide, Methanol, n-Butanol may be formed depending on fire conditions.

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### SECTION 11: TOXICOLOGICAL INFORMATION

ID	Oral LD 50		Dermal LD50		Inhalation LC50	
	Value	Species	Value	Species	Value	Time
1	-	-	-	-	164000 ppm	4h
2	5800 mg/kg	rat	20000 mg/kg	rabbit	76 mg/mg	4h
3	636 mg/kg	rat	>1200 mg/kg	rabbit	49 mg/m <sup>3</sup>	4h
4	13110 mg/kg	rat	>14100 mg/kg	rabbit	>21 mg/L	4h
5	2080 mg/kg	rat	>16000 mg/kg	rabbit	>8 mg/L	4h
6	4300 mg/kg	rat	>20 ml/kg	guinea pig	>1000 mg/L	4h

#### Skin Corrosion/Irritation

Toluene causes skin irritation.

#### Eye Damage/Irritation

Acetone, Methyl Isobutyl Ketone causes serious eye injury.

#### Respiratory Irritation

Methyl Isobutyl Ketone may cause respiratory irritation.

#### Respiratory or Skin Sensitization

None of the ingredients are known to cause sensitization.

#### Germ cell mutagenicity

None of the ingredients are known or suspected of causing genetic defects.

#### Carcinogen Data

Methyl Isobutyl Ketone is listed as follows: Is known by the State of California to cause cancer. IARC as Group 2B (possibly carcinogenic to humans).

#### Reproductive Toxicity

Toluene is/are known by the State of California to cause birth defects or other reproductive harm. Toluene is/are suspected of damaging fertility or the unborn child.

#### STOT – single exposure

Acetone, Toluene, N-Butyl Acetate may cause drowsiness or dizziness.

#### STOT – repeated exposure

Toluene may cause damage to organs through prolonged or repeated exposure.

#### Aspiration Hazard

Toluene may be fatal if swallowed and enters airways.

### Information on the Likely Routes of Exposure

#### Routes of Exposure

Skin contact, skin absorption, eye contact, inhalation.

### Symptoms Related to the Physical, Chemical and Toxicological Characteristics

#### Symptoms of Exposure

Central Nervous System Depression, Dermatitis, Dizziness, Drowsiness, Skin Irritation, Throat Irritation, Upper Respiratory System Irritation.

### Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure

#### Delayed Effects

No known delayed effects.

#### Immediate Effects

No known immediate effects.

#### Chronic Effects

Reports of chronic poisoning from Toluene describe anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Exposure may affect a developing fetus. Toluene exposure to related solvents, such as benzene, xylene and ethanol slows the rate of clearance of from the body, thus enhancing its toxic effects.

#### Medical Conditions Aggravated

May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

#### Target Organs

Bladder, Central Nervous System, Eyes, Liver, Respiratory System, Skin

### Interactive Effects

#### Synergistic effects

No known synergistic effects.

### SECTION 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

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ID	TYPE	FISH VALUE	PERIOD	TYPE	INVERTEBRATES VALUE	PERIOD	TYPE	AQUATIC PLANTS VALUE	PERIOD	TYPE	MICROORGANISMS VALUE	PERIOD
1	NOEC	>4000mg/L	96h	NOEC	>4000mg/L	48h	—	—	—	EC10	>16000mg/L	16h
2	LC50	5549 mg/L	96h	EC50	6100 mg/L	48h	IC5	530 mg/L	8d	EC5	1700 mg/L	16h
3	LC50	13 mg/L	96h	EC50	11.5 mg/L	48h	EC50	>250 mg/L	24h	EC0	29 mg/L	16h
4	LC50	62 mg/L	96h	EC50	72.8 mg/L	24h	EC50	675 mg/L	72h	EC50	959 mg/L	18h
5	LC50	505 mg/L	96h	EC50	170 mg/L	48h	EC50	980 mg/L	48h	EC10	413 mg/L	18h
6	LC50	50 mg/L	96h	EC50	>95 mg/L	48h	—	—	—	EC50	>50000mg/L	5h

### Ecological Data

ID	Persistence and Degradability				Bioaccumulative Potential		Mobility
	Persistence	BOD	COD	ThOD	Pow / Kow	BCF	Koc
2	-	1.85 mg/g /5d	1.92 mg/L	2.21 mg/L	-0.24 log PoW	0.69	1.26 Log Koc
3	-	2.15 mg/g	2.52 mg/g	3.13 mg/g	2.65 PoW	1.57 Log BCF	2.15 log Koc
4	-	520 mg/g	2320 mg/g	2207 mg/g	1.804 log PoW	1.14 Log BCF	2.35 Log Koc
6	-	-	-	-	1.08 Log PoW	-	-

### Other Adverse Effects

No additional information available.

## SECTION 13: DISPOSAL CONSIDERATION

### 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©(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: TRANSPORT INFORMATION

	UNITED STATES DOT	INTERNATIONAL AIR ICAO/IATA	INTERNATIONAL OCEAN IMDG	UNITED NATIONS ADR	CANADA TDG
ID Number	UN1950	UN1950	UN1950	UN1950	UN1950
Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Flammable, Limited Quantity	Aerosols, Limited Quantity	Aerosols, Limited Quantity	Aerosols, Limited Quantity
Hazard Class(es)	2.1	2.1	2.1	2.1	2.1
Packing Group	—	—	—	—	—

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Environmental Hazards	No	No	No	No	No
Special Precautions	NotApplicable	NotApplicable	NotApplicable	NotApplicable	NotApplicable
Hazard Labels					

**Additional Shipping Labels**      Not available.

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

ID	TSCA Listed	SARA 302 EHS TPQ	RCRA	CERCLA	SARA 313	SARA 311/312					Clean Air Act		Clean Water Act
						Fire	Reactivity	Acute	Chronic	Pressure	HAP	SOCMI	
1	Yes	-	-	-	-	Yes	-	-	-	-	-	-	-
2	Yes	-	U002	5000	-	Yes	-	Yes	-	-	-	-	-
3	Yes	-	U220	1000	10%	Yes	-	Yes	Yes	-	Yes	Yes	1000 (PP)
4	Yes	-	-	5000	-	Yes	-	Yes	-	-	-	-	5000
5	Yes	-	U161	5000	5%	Yes	-	Yes	-	-	Yes	Yes	-
6	Yes	-	-	-	-	-	-	-	-	-	-	-	-

#### US State Regulations

	CA	DE	MA	ME	MN	NJ	NY	PA	WA	WI	WV
ID	P-65	RQ	RTK CODES	TYPE RQ	RTK AIR WATER	RTK	AIR LAND ACUTE	LISTED	PEL TWA	TABL E	TAP
1	-	F 1000 **	5,6	- -	I - -	Yes	- - -	Yes	-	-	-
2	-	5000	2,4,5,6 F8 F9	- 20000	AON - -	-	5000 1 -	Yes-E	750 ppm	-	-
3	DF	1000	2,4,5,6 F7 F8 F9	- 2000	ANO Yes Yes	Yes	1000 1 -	Yes-E	100 ppm	A	-
4		5000	2,4,5,6 F8	- 20000	AO - -	-	5000 100 -	Yes-E	150 ppm	-	-
5	C	5000	2,4,5,6 F8 F9	- 2000	- - -	Yes	5000 1 -	Yes-E	50 ppm	A	-

#### Canadian Regulations

ID	WHMIS CATEGORIES										CHEMICAL LISTS		
	A	B	C	D1A	D1B	D2A	D2B	D3	E	F	DSL	NDSL	NPRI
1	-	-	-	-	-	-	-	-	-	-	Yes	-	5
2	-	B2	-	-	-	-	X	-	-	-	Yes	-	-
3	-	B2	-	-	-	X	X	-	-	-	Yes	-	1A, 5



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4	–	B2	–	–	–	–	X	–	–	–	Yes	–	5
5	–	B2	–	–	–	X	–	–	–	–	Yes	–	1A, 5
6	–	B3	–	–	–	–	X	–	–	–	Yes	–	–

### CPR Notice

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

### WHMIS Classification

A, B5, D2A, D2B

### WHMIS Symbols



## SECTION 16: OTHER INFORMATION

### NFPA / HMIS Classification



### SDS Revision History

Revision 1, 12/19/2013 Original in GHS Version 4 Format

### References and Sources

CAMEO Database of Hazardous Materials (<http://cameochemicals.noaa.gov>)  
 CHEMpendium Database (<http://ccinfoweb.ccohs.ca/chempendium/search.html>)  
 ChemSpider Chemical Database (<http://chemspider.com>)  
 European Chemical Substances Information system (<http://esis.jrc.ec.europa.eu>)  
 European Chemicals Agency (<http://echa.europa.eu>)  
 International Chemical Safety Cards (<http://www.cdc.gov/niosh/ipcs/ipscard.html>)  
 IUCLID Chemical Data Sheets Information System (<http://esis.jrc.ec.europa.eu/index.php?PGM=dat>)  
 Merck Chemical Database (<http://www.merckmillipore.co.uk/chemicals>)  
 NIOSH Pocket Guide to Chemical Hazards (<http://www.cdc.gov/niosh/npg/>)  
 Right to Know Hazardous Substance Fact Sheets (<http://web.doh.state.nj.us/rtkhsfs/indexfs.aspx>)  
 RTECS Database (<http://ccinfoweb.ccohs.ca/rtecs/search.html>)  
 SOLV-DB, Solvent Database (<http://solvdb.ncms.org/solvdb.htm>)  
 Toxic Substances Portal (<http://www.atsdr.cdc.gov/toxprofiles/index.asp>)  
 TOXNet (<http://toxnet.nlm.nih.gov>)

### Abbreviations Used

**ACGIH** American Conference of Industrial Hygienists  
**ADR** European Agreement ... International Carriage of Dangerous Goods by Road  
**BCF** Bioconcentration Factor  
**BEI** Biological Exposure Index BOD Biochemical Oxygen Demand  
**CA** California  
**CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act (USA)  
**CFR** Code of Federal Regulations (USA)  
**CLP** Classification, Labeling and Packaging of Substances (Europe)  
**COD** Chemical Oxygen Demand

**CPR** Controlled Products Regulations (Canada)  
**DE** Delaware  
**DOT** Department of Transportation (USA)  
**DSL** Domestic Substance List (Canada) EC European Community  
**EC50** Effective Concentration 50%  
**EHA** Extremely Hazardous Substance  
**EPA** Environmental Protection Agency (USA)  
**g/cc** Grams per Cubic Centimeter  
**GHS** Globally Harmonized System  
**HAP** Hazardous Air Pollutant

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**IARC** International Agency for Research on Cancer **IATA** International Air Transportation Association  
**IC50** Half Maximal Inhibitory Concentration  
**ICAO** International Civil Aviation Organization  
**IDLH** Immediately Dangerous to Life and Health  
**IMDG** International Maritime Dangerous Goods  
**Kow** Octanol-Water Partition Coefficient  
**lbs/gal** Pounds per Gallon  
**LC50** Lethal Concentration 50%  
**LD50** Lethal Dosage 50%  
**MA** Massachusetts  
**MAK** Maximale Arbeitsplatz Konzentration (Maximum Workplace Concentration) Max Maximum  
**mg/L** Milligrams per Litre  
**mg/m3** Milligrams per Cubic Meter  
**MN** Minnesota  
**MPEL-PTA** Maximum Permissible Exposure Limit on Pondered Time Average  
**NDSL** Non-Domestic Substance List (Canada)  
**NIOSH** National Institute for Occupational Safety and Health (USA)  
**NJ** New Jersey  
**NOEC** No Observed Effect Concentration  
**NPRI** National Pollutant Release Inventory (Canada)  
**NTP** National Toxicity Program (USA)  
**NY** New York  
**OEL** Occupational Exposure Limit  
**OSHA** Occupational Safety and Health Administration (USA)  
**P-65** Proposition 65 (USA)  
**PA** Pennsylvania  
**Pow** Octanol-Water Partition Coefficient

**ppm** Parts per Million  
**psig** Pounds per Square Inch Gage  
**RCRA** Resource Conservation and Recovery Act (USA)  
**REL** Recommended Exposure Limit  
**RQ** Reportable Quantity  
**RTK** Right to Know  
**SARA** Superfund Amendments and Reauthorization Act (USA)  
**SDS** Safety Data Sheet  
**SOCMI** Synthetic Organic Chemical Manufacturing Industry (USA)  
**STOT-RE** Suspected Target Organ Toxin, Repeat Exposure  
**STOT-SE** Suspected Target Organ Toxin, Single Exposure  
**SVHC** Substance of Very High Concern  
**TAP** Toxic Air Pollutant  
**TDG** Transportation of Dangerous Goods (Canada)  
**ThOD** Theoretical Oxygen Demand  
**TLV** Threshold Limit Value  
**TPQ** Threshold Planning Quantity  
**TSCA** Toxic Substances Control Act (USA)  
**TWA** Time Weighted Average  
**TWAEV** Time Weighted Average Exposure Value  
**VOC** Volatile Organic Compound  
**WA** Washington  
**WEL** Workplace Exposure Limit  
**WHMIS** Workplace Hazardous Materials Information System (Canada)  
**WI** Wisconsin  
**WV** West Virginia

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