



# HUSKY GREEN FIN COIL CLEANER AEROSOL

## Safety Data Sheet

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

### Section 1. Identification

**Product identifier** HUSKY GREEN FIN COIL CLEANER AEROSOL

#### Other means of identification

**Product Code** 11063 110073 604

**Recommended use** Heavy duty grease, oil and carbonized soil remover for HVAC/R components

#### Manufacturer/Importer/Supplier/Distributor information

**Company name** Bronz-Glow Technologies, Inc.

**Address** 175 Bronz Glow Way  
St. Augustine, FL 32095  
United States

**Telephone** 904-825-0175

**Emergency phone number** Chemtrec **800-424-9300 (US); 703-527-3887 (International)**

### Section 2. HAZARD(S) IDENTIFICATION

#### Physical hazards

Flammable aerosols Category 1  
Gases under pressure Liquefied gas

#### Health hazards

Serious eye damage/eye irritation Category 2A  
Carcinogenicity Category 2  
Reproductive toxicity Category 2  
Specific target organ toxicity, single exposure Category 3 narcotic effects  
Category 1  
Specific target organ toxicity, repeated exposure

#### Environmental hazards

Hazardous to the aquatic environment, acute hazard Category 2  
Hazardous to the aquatic environment, long-term hazard Category 2

#### OSHA defined hazards

Not classified.

#### Label elements



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<b>Signal word</b>	Danger
<b>Hazard statement</b>	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	If inhaled: Remove person to fresh air and keep 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/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	Collect spillage.
<b>Disposal</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>Hazard(s) not otherwise classified (HNOC)</b>	Dispose of contents/container in accordance with local/regional/national/international regulations. None known.
<b>Supplemental information</b>	23.06% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 23.06% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
ETHYL ALCOHOL		64-17-5	40 to <50
ACETONE		67-64-1	30 to <40
PROPANE		74-98-6	10 to <20
N-BUTANE		106-97-8	5 to <10
METHANOL		67-56-1	1 to <5
4-Methyl-2-pentanone		108-10-1	0.1 to <1
HEPTANE		142-82-5	0.1 to <1
Other components below reportable levels			0.1 to <1

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** No adverse effects due to skin contact are expected. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. No specific first aid measures noted.

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<b>Ingestion</b>	Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
<b>Most important symptoms/effects, acute and delayed</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
<b>General fire hazards</b>	Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

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## 7. HANDLING AND STORAGE

**Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Level 2 Aerosol.  
Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Secure cylinders in an upright position at all times. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		Value
Components	Type	
4-Methyl-2-pentanone (CAS 108-10-1)	PEL	410 mg/m <sup>3</sup>
		100 ppm
ACETONE (CAS 67-64-1)	PEL	2400 mg/m <sup>3</sup>
		1000 ppm
ETHYL ALCOHOL (CAS 64-17-5)	PEL	1900 mg/m <sup>3</sup>

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### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
HEPTANE (CAS 142-82-5)	PEL	1000 ppm 2000 mg/m <sup>3</sup>
METHANOL (CAS 67-56-1)	PEL	500 ppm 260 mg/m <sup>3</sup>
PROPANE (CAS 74-98-6)	PEL	200 ppm 1800 mg/m <sup>3</sup> 1000 ppm

### US. ACGIH Threshold Limit Values

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	75 ppm
	TWA	20 ppm
ACETONE (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
ETHYL ALCOHOL (CAS 64-17-5)	STEL	1000 ppm
HEPTANE (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
METHANOL (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
N-BUTANE (CAS 106-97-8)	STEL	1000 ppm

### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	300 mg/m <sup>3</sup>
	TWA	75 ppm 205 mg/m <sup>3</sup> 50 ppm
ACETONE (CAS 67-64-1)	TWA	590 mg/m <sup>3</sup> 250 ppm
ETHYL ALCOHOL (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup>
HEPTANE (CAS 142-82-5)	Ceiling	1000 ppm 1800 mg/m <sup>3</sup> 440 ppm
	TWA	350 mg/m <sup>3</sup> 85 ppm
METHANOL (CAS 67-56-1)	STEL	325 mg/m <sup>3</sup> 250 ppm
	TWA	260 mg/m <sup>3</sup> 200 ppm
N-BUTANE (CAS 106-97-8)	TWA	1900 mg/m <sup>3</sup> 800 ppm
PROPANE (CAS 74-98-6)	TWA	1800 mg/m <sup>3</sup> 1000 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
4-Methyl-2-pentanone (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
ACETONE (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
METHANOL (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

\* - For sampling details, please see the source document.

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## Exposure guidelines

### US - California OELs: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

### US - Minnesota Haz Subs: Skin designation applies

METHANOL (CAS 67-56-1) Skin designation applies.

### US - Tennessee OELs: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

### US ACGIH Threshold Limit Values: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

## Appropriate engineering

### Controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection Hand protection** For prolonged or repeated skin contact use suitable protective gloves.

**Other Respiratory protection** Wear suitable protective clothing.

**Thermal hazards** In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary.

## General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

**Physical state** Liquid.

**Form** Aerosol. Liquefied gas.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -305.68 °F (-187.6 °C) estimated

**Initial boiling point and boiling range** -43.78 °F (-42.1 °C) estimated

**Flash point** -156.0 °F (-104.4 °C) estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** 1.9 % estimated

**Flammability limit - upper (%)** 12.8 % estimated

**Explosive limit - lower (%)** Not available.

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<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	550 °F (287.78 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	6.00 lbs/gal
<b>Flammability class</b>	Flammable IA estimated
<b>Heat of combustion (NFPA 30B)</b>	29.33 kJ/g estimated
<b>Percent volatile</b>	100
<b>Specific gravity</b>	0.72
<b>VOC</b>	488.664703 g/l Material 5.7649177 lbs/gal Regulatory 690.78949 g/l Regulatory 4.0781046 lbs/gal Material

## **10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.
<b>Chemical stability</b>	
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Acids. Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
<b>Incompatible materials</b>	
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

<b>Inhalation</b>	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected. Causes serious eye irritation.
<b>Eye contact</b>	
<b>Ingestion</b>	Expected to be a low ingestion hazard.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.
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### Information on toxicological effects

**Acute toxicity** Narcotic effects.

Components	Species	Test Results
4-Methyl-2-pentanone (CAS 108-10-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 16000 mg/kg
<b>Inhalation</b>		
LC50	Rat	8.2 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	2080 mg/kg
ACETONE (CAS 67-64-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 15800 mg/kg
<b>Components</b>		
<b>Inhalation</b>		
LC50	Rat	76 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	3000 mg/kg
	Rat	5800 mg/kg
ETHYL ALCOHOL (CAS 64-17-5)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
<b>Oral</b>		
LD50	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg
HEPTANE (CAS 142-82-5)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	103 mg/l, 4 Hours
LD50	Mouse	75 mg/l, 2 Hours
METHANOL (CAS 67-56-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	15800 mg/kg
<b>Inhalation</b>		
LC50	Rat	64000 ppm, 4 Hours
		87.5 mg/l, 6 Hours



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### Oral

LD50	Monkey	2 g/kg
	Mouse	7300 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg

N-BUTANE (CAS 106-97-8)

### Acute

#### Inhalation

LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours

PROPANE (CAS 74-98-6)

### Acute

#### Inhalation

LC50	Rat	> 1442.847 mg/l, 15 Minutes
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\* Estimates for product may be based on additional component data not shown.

Prolonged skin contact may cause temporary irritation. Causes serious eye irritation.

### Skin corrosion/irritation

#### Serious eye damage/eye irritation

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

#### Respiratory or skin sensitization

#### Respiratory sensitization Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Suspected of causing cancer.

#### Germ cell mutagenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

#### Carcinogenicity

4-Methyl-2-pentanone (CAS 108-10-1) humans.

2B Possibly carcinogenic to

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

#### Specific target organ toxicity - single exposure

May cause drowsiness and dizziness.

#### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Not an aspiration hazard.

#### Chronic effects

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**12. ECOLOGICAL INFORMATION****Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
4-Methyl-2-pentanone (CAS 108-10-1)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	492 - 593 mg/l, 96 hours
ACETONE (CAS 67-64-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> )	4740 - 6330 mg/l, 96 hours
ETHYL ALCOHOL (CAS 64-17-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	> 100 mg/l, 96 hours
HEPTANE (CAS 142-82-5)			
<b>Aquatic</b>			
Fish	LC50	Mozambique tilapia ( <i>Tilapia mossambica</i> )	375 mg/l, 96 hours
METHANOL (CAS 67-56-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	> 100 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.**Bioaccumulative potential****Partition coefficient n-octanol / water (log Kow)**

4-Methyl-2-pentanone	1.31
ACETONE	-0.24
ETHYL ALCOHOL	-0.31
HEPTANE	4.66
METHANOL	-0.77
N-BUTANE	2.89
PROPANE	2.36

**Mobility in soil** No data available.**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. **DISPOSAL CONSIDERATIONS**

**Disposal instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.  
 Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Local disposal regulations**

**Hazardous waste code**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Waste from residues / unused products**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

**Contaminated packaging**

### 14. **TRANSPORT INFORMATION**

UN1950  
 Aerosols, Flammable

**DOT**

2.1

**UN number**

-

**UN proper shipping name**

2.1

**Transport hazard class(es)**

Not applicable.

**Class Subsidiary risk**

**Label(s)**

**Packing group**

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Special provisions**

N82

**Packaging exceptions**

306

**Packaging non bulk**

None

**Packaging bulk**

None

**IATA**

**UN number**

UN1950

**UN proper shipping name**

Aerosols, Flammable

**Transport hazard class(es)**

**Class**

2.1

**Subsidiary risk**

-

**Label(s)**

2.1

**Packing group**

Not applicable.

**Environmental hazards**

No.

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo**

Allowed

**aircraft**

**Cargo aircraft only**

Allowed

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## IMDG

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, Flammable,
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Not applicable.
<b>EmS</b>	Not available.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.

## DOT



## IATA; IMDG



## General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations

## 15. REGULATORY INFORMATION

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

4-Methyl-2-pentanone (CAS 108-10-1)	Listed.
ACETONE (CAS 67-64-1)	Listed.
ETHYL ALCOHOL (CAS 64-17-5)	Listed.
HEPTANE (CAS 142-82-5)	Listed.
METHANOL (CAS 67-56-1)	Listed.
N-BUTANE (CAS 106-97-8)	Listed.
PROPANE (CAS 74-98-6)	Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
METHANOL	67-56-1	1 to <5
4-Methyl-2-pentanone	108-10-1	0.1 to <1

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

4-Methyl-2-pentanone (CAS 108-10-1)  
1) METHANOL (CAS 67-56-1)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

N-BUTANE (CAS 106-97-8)  
PROPANE (CAS 74-98-6)

**Safe Drinking Water Act (SDWA)** Not regulated.

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### **Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

4-Methyl-2-pentanone (CAS 108-10-1)	6715
ACETONE (CAS 67-64-1)	6532

### **Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

4-Methyl-2-pentanone (CAS 108-10-1)	35 %WV
ACETONE (CAS 67-64-1)	35 %WV

### **DEA Exempt Chemical Mixtures Code Number**

4-Methyl-2-pentanone (CAS 108-10-1)	6715
ACETONE (CAS 67-64-1)	6532

## **US state regulations**

### **US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

### **US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

4-Methyl-2-pentanone (CAS 108-10-1)  
ACETONE (CAS 67-64-1)  
METHANOL (CAS 67-56-1) N-BUTANE (CAS 106-97-8)

### **US. Massachusetts RTK - Substance List**

4-Methyl-2-pentanone (CAS 108-10-1)  
ACETONE (CAS 67-64-1)  
ETHYL ALCOHOL (CAS 64-17-5)  
HEPTANE (CAS 142-82-5)  
METHANOL (CAS 67-56-1) N-BUTANE (CAS 106-97-8)  
PROPANE (CAS 74-98-6)

### **US. New Jersey Worker and Community Right-to-Know Act**

4-Methyl-2-pentanone (CAS 108-10-1)  
ACETONE (CAS 67-64-1)  
ETHYL ALCOHOL (CAS 64-17-5)  
HEPTANE (CAS 142-82-5)  
METHANOL (CAS 67-56-1) N-BUTANE (CAS 106-97-8)  
PROPANE (CAS 74-98-6)

### **US. Pennsylvania Worker and Community Right-to-Know Law**

4-Methyl-2-pentanone (CAS 108-10-1)  
ACETONE (CAS 67-64-1)  
ETHYL ALCOHOL (CAS 64-17-5)  
HEPTANE (CAS 142-82-5)  
METHANOL (CAS 67-56-1) N-BUTANE (CAS 106-97-8)  
PROPANE (CAS 74-98-6)

### **US. Rhode Island RTK**

4-Methyl-2-pentanone (CAS 108-10-1)  
ACETONE (CAS 67-64-1)  
METHANOL (CAS 67-56-1)  
N-BUTANE (CAS 106-97-8)  
PROPANE (CAS 74-98-6)

### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

## Safety Data Sheet

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

4-Methyl-2-pentanone (CAS 108-10-1)	Listed: November 4, 2011
ETHYL ALCOHOL (CAS 64-17-5)	Listed: April 29, 2011
	Listed: July 1, 1988

### US - California Proposition 65 - CRT: Listed date/Developmental toxin

4-Methyl-2-pentanone (CAS 108-10-1)	Listed: March 28, 2014
ETHYL ALCOHOL (CAS 64-17-5)	Listed: October 1, 1987
METHANOL (CAS 67-56-1)	Listed: March 16, 2012

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	08-12-2015
Revision date	06-30-2016
Version #	05
HMIS® ratings	Health: 2* Flammability: 4 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 4 Instability: 0

### Disclaimer

This information is based on our current knowledge and is believed to be accurate and reliable as of the date completed. It is intended to describe the product for the purposes of health, safety and environmental requirements only. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release is not to be considered a warranty or quality specification. Therefore, it should not be construed as guaranteeing any specific property of the product. The user is responsible to ensure safe conditions for handling, storage, and disposal of the product and to assume liability for loss, injury or damage due to improper use.