

**1. Identification**

<b>Product identifier</b>	<b>Heavy Duty Degreaser</b>
<b>Other means of identification</b>	
<b>Part Number</b>	69698
<b>Recommended use</b>	A degreaser designed to remove grease, oil, dirt and other residues from metal and other hard surfaces near ignition sources.
<b>Recommended restrictions</b>	None known.

**Manufacturer/Importer/Supplier/Distributor information**

<b>Company name</b>	Ritchie Engineering Company, Inc.
<b>Address</b>	10950 Hampshire Avenue South Bloomington, MN 55438-2623
<b>Country</b>	(U.S.A.) Phone: 952-943-1333, Fax: 1-800-322-8684.
<b><u>In Case of Emergency</u></b>	<b>US &amp; Canada 800-424-9300 (24 HOURS) CHEMTREC; Call collect outside continental US &amp; Canada: 703-527-3887.</b>

**2. Hazard(s) identification**

<b>Physical hazards</b>	Gases under pressure	Compressed gas
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 1B
<b>Environmental hazards</b>	Specific target organ toxicity, single exposure	Category 3 narcotic effects
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>	Not classified.	



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. May cause drowsiness or dizziness.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	If on skin: Wash with plenty of water. 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 skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight.

<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
1,1,2-trichloroethylene		79-01-6	90 - 100
Carbon Dioxide		124-38-9	1 - 5

### 4. First-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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.
<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. Skin irritation. May cause redness and pain.
<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>	Water fog. Foam. 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>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<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>	Cool containers exposed to flames with water until well after the fire is out.
<b>General fire hazards</b>	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. Avoid breathing gas. 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. Use personal protection recommended in Section 8 of the SDS.
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**Methods and materials for containment and cleaning up**

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

**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. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Level 1 Aerosol.

Store locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Type	Value	Form
Butanone (CAS 78-93-3)	PEL	590 mg/m <sup>3</sup> 200 ppm	
Camphor USP (CAS 76-22-2)	PEL	2 mg/m <sup>3</sup>	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m <sup>3</sup>	
Diphenyl Oxide (CAS 101-84-8)	PEL	5000 ppm 7 mg/m <sup>3</sup>	Vapor.
Iso amyl acetate (CAS 123-92-2)	PEL	1 ppm 525 mg/m <sup>3</sup>	Vapor.
Turpentine (CAS 8006-64-2)	PEL	100 ppm 560 mg/m <sup>3</sup>	
		100 ppm	

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value
1,1,2-trichloroethylene (CAS 79-01-6)	Ceiling	200 ppm
	TWA	100 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	25 ppm	
	TWA	10 ppm	
Butanone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Camphor USP (CAS 76-22-2)	STEL	3 ppm	
	TWA	2 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Diphenyl Oxide (CAS 101-84-8)	STEL	2 ppm	Vapor.
	TWA	1 ppm	Vapor.
Iso amyl acetate (CAS 123-92-2)	STEL	100 ppm	
	TWA	50 ppm	
Turpentine (CAS 8006-64-2)	TWA	20 ppm	

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

Components	Type	Value	Form
1,1,2-trichloroethylene (CAS 79-01-6)	TWA	25 ppm	
Butanone (CAS 78-93-3)	STEL	885 mg/m3	
		300 ppm	
	TWA	590 mg/m3	
Camphor USP (CAS 76-22-2)	TWA	200 ppm	
		2 mg/m3	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
Diphenyl Oxide (CAS 101-84-8)	TWA	5000 ppm	
		7 mg/m3	Vapor.
Iso amyl acetate (CAS 123-92-2)	TWA	1 ppm	Vapor.
		525 mg/m3	
Turpentine (CAS 8006-64-2)	TWA	100 ppm	
		560 mg/m3	
		100 ppm	

**US. Workplace Environmental Exposure Level (WEEL) Guides**

Components	Type	Value
1,2 Butylene Oxide (CAS 106-88-7)	TWA	5.9 mg/m3
		2 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
1,1,2-trichloroethylene (CAS 79-01-6)	15 mg/l	Trichloroacetic acid	Urine	*
	0.5 mg/l	Trichloroethano l, without hydrolysis	Blood	*
Butanone (CAS 78-93-3)	2 mg/l	MEK	Urine	*

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

**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. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Observe any medical surveillance requirements. 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

<b>Physical state</b>	Gas.
<b>Form</b>	Aerosol.
<b>Color</b>	Clear. Colorless.

**Odor** Sweet. Spice.

**Odor threshold** Not established

**pH** Not applicable

**Melting point/freezing point** Not established

**Initial boiling point and boiling range** 188.6 °F (87 °C)

**Flash point** Tag Closed Cup (None)

**Evaporation rate** 0.3 (Ethyl Ether = 1)

**Flammability (solid, gas)** Non flammable gas.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** 8 %

**Flammability limit - upper (%)** 10.5 %

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

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

**Vapor pressure** 58 mm Hg @ 20°C

**Vapor density** 4.5

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** 0.1 %

**Partition coefficient (n-octanol/water)** 2.4

**Auto-ignition temperature** > 788 °F (> 420 °C)

**Decomposition temperature** Not established

**Viscosity** 0.53 cP @ 25° C

### Other information

**Explosive properties** Not explosive.

**Heat of combustion** < 20 kJ/g

**Oxidizing properties** Not oxidizing.

**Percent volatile** 100 %

**Specific gravity** 1.41 - 1.47 @ 20°C

**VOC** 97.8 %

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Narcotic effects.

Components	Species	Test Results
1,1,2-trichloroethylene (CAS 79-01-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	20 ml/kg
<b>Inhalation</b>		
LC50	Rat	12500 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	4920 mg/kg
1,2 Butylene Oxide (CAS 106-88-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	1.77 ml/kg, 24 Hours
<b>Inhalation</b>		
<i>Vapor</i>		
LC50	Rat	> 6.3 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	1100 µl/kg
Butanone (CAS 78-93-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 10 ml/kg
<b>Oral</b>		
LD50	Rat	2054 mg/kg
Diphenyl Oxide (CAS 101-84-8)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	2.83 g/kg

Components	Species	Test Results
Turpentine (CAS 8006-64-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Vapor</i>		
LC50	Rat	13.7 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	4.6 ml/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>ACGIH sensitization</b>		
Turpentine (CAS 8006-64-2)	Dermal sensitization	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	Suspected of causing genetic defects.	
<b>Carcinogenicity</b>	May cause cancer.	
<b>ACGIH Carcinogens</b>		
1,1,2-trichloroethylene (CAS 79-01-6)	A2 Suspected human carcinogen.	
Camphor USP (CAS 76-22-2)	A4 Not classifiable as a human carcinogen.	
Turpentine (CAS 8006-64-2)	A4 Not classifiable as a human carcinogen.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
1,1,2-trichloroethylene (CAS 79-01-6)	1 Carcinogenic to humans.	
1,2 Butylene Oxide (CAS 106-88-7)	2B Possibly carcinogenic to humans.	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		
Not regulated.		
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>		
1,1,2-trichloroethylene (CAS 79-01-6)	Reasonably Anticipated to be a Human Carcinogen.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	
<b>Further information</b>	Symptoms may be delayed.	

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
1,1,2-trichloroethylene (CAS 79-01-6)		
<b>Aquatic</b>		
Fish	LC50	Flagfish ( <i>Jordanella floridae</i> )
		3.1 mg/l, 96 hours
Butanone (CAS 78-93-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )
		4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow ( <i>Cyprinodon variegatus</i> )
		> 400 mg/l, 96 hours

Components	Species	Test Results
Diphenyl Oxide (CAS 101-84-8)		
<b>Aquatic</b>		
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus) 1.8 - 3.2 mg/l, 96 hours
<b>Persistence and degradability</b>	Not inherently biodegradable.	
<b>Bioaccumulative potential</b>		
<b>Partition coefficient n-octanol / water (log Kow)</b>		
LPS® HDX (Aerosol)		2.4
1,1,2-trichloroethylene		2.61
Butanone		0.29
Diphenyl Oxide		4.21
<b>Mobility in soil</b>	No data available.	
<b>Other adverse effects</b>	None known.	
<b>13. Disposal considerations</b>		
<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.	
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
	D003: Waste Reactive material D040: Waste Trichloroethylene	
<b>Waste from residues / unused products</b>	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).	
<b>Contaminated packaging</b>	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.	
<b>14. Transport information</b>		
<b>DOT</b>		
<b>UN number</b>	UN1950	
<b>UN proper shipping name</b>	Aerosols, non-flammable, (each not exceeding 1 L capacity)	
<b>Transport hazard class(es)</b>		
<b>Class</b>	2.2	
<b>Subsidiary risk</b>	6.1(PGIII)	
<b>Label(s)</b>	2.2	
<b>Packing group</b>	Not applicable.	
<b>Environmental hazards</b>		
<b>Marine pollutant</b>	No	
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.	
<b>Packaging exceptions</b>	306	
<b>Packaging non bulk</b>	None	
<b>Packaging bulk</b>	None	
<b>IATA</b>		
<b>UN number</b>	UN1950	
<b>UN proper shipping name</b>	Aerosols, non-flammable	
<b>Transport hazard class(es)</b>		
<b>Class</b>	2.2	
<b>Subsidiary risk</b>	6.1(PGIII)	
<b>Packing group</b>	Not applicable.	
<b>Environmental hazards</b>	No	
<b>ERG Code</b>	2L	
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.	
<b>Other information</b>		
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.	



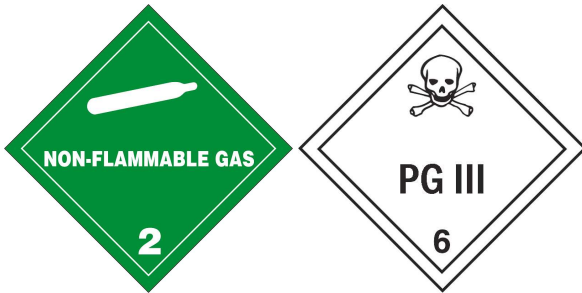
**Cargo aircraft only** Allowed with restrictions.

**IMDG**

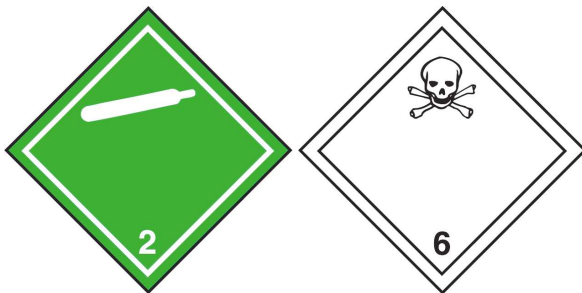
**UN number** UN1950  
**UN proper shipping name** AEROSOLS  
**Transport hazard class(es)**  
**Class** 2.2  
**Subsidiary risk** 6.1(PGIII)  
**Packing group** Not applicable.  
**Environmental hazards**  
**Marine pollutant** No  
**EmS** F-D, S-U  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**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 cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (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.

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

1,1,2-trichloroethylene (CAS 79-01-6) 0.1 % One-Time Export Notification only.

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

1,1,2-trichloroethylene (CAS 79-01-6) Listed.  
1,2 Butylene Oxide (CAS 106-88-7) Listed.  
Butanone (CAS 78-93-3) Listed.  
Iso amyl acetate (CAS 123-92-2) Listed.

**SARA 304 Emergency release notification**

Not regulated.

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

Not regulated.

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

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

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
TRICHLOROETHYLENE	79-01-6	97.25

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

1,1,2-trichloroethylene (CAS 79-01-6)  
 1,2 Butylene Oxide (CAS 106-88-7)

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

Not regulated.

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

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

Butanone (CAS 78-93-3) 6714

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

Butanone (CAS 78-93-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Butanone (CAS 78-93-3) 6714

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Butanone (CAS 78-93-3) Low priority  
 Diphenyl Oxide (CAS 101-84-8) Low priority  
 Iso amyl acetate (CAS 123-92-2) Low priority

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

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

1,1,2-trichloroethylene (CAS 79-01-6) Listed: April 1, 1988

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

1,1,2-trichloroethylene (CAS 79-01-6) Listed: Jan 31, 2014

**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

1,1,2-trichloroethylene (CAS 79-01-6) Listed: Jan 31, 2014

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

1,1,2-trichloroethylene (CAS 79-01-6)  
 1,2 Butylene Oxide (CAS 106-88-7)  
 Butanone (CAS 78-93-3)

**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

Country(s) or region	Inventory name	On inventory (yes/no)*
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** 10-18-2016

**Version #** 01

**Disclaimer** ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.