



# 1. Identification

Product identifier	Chlor-Free® Degreaser MUO			
Other means of identification				
Product Code	No. 03985 (Item# 1003519)			
Recommended use	General purpose degreaser for manufacturing use only			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/I	Distributor information			
Manufactured or sold by:				
Company name	CRC Industries, Inc.			
Address	885 Louis Dr.			
	Warminster, PA 18974 US			
Telephone				
General Information	215-674-4300			
Technical Assistance	800-521-3168			
Customer Service	800-272-4620			
24-Hour Emergency (CHEMTREC)	800-424-9300 (US)			
Website	www.crcindustries.com			
2. Hazard(s) identification				
Physical hazards	Flammable aerosols	Category 1		
	Gases under pressure	Compressed gas		
Health hazards	Acute toxicity, oral	Category 4		
	Skin corrosion/irritation	Category 2		
	Serious eye damage/eye irritation	Category 2A		
	Carcinogenicity	Category 2		
	Reproductive toxicity	Category 1A		
	Specific target organ toxicity, single exposure	Category 1 (central nervous system, eyes)		
	Specific target organ toxicity, single exposure	Category 3 narcotic effects		
	Specific target organ toxicity, repeated exposure	Category 1		
	Aspiration hazard	Category 1		
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1		
	Hazardous to the aquatic environment, long-term hazard	Category 1		

**OSHA** defined hazards

Label elements



#### Danger

Not classified.

Hazard statement

Signal word

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs (central nervous system, eyes). Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	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. Do not apply while equipment is energized. Extinguish all flames, pilot lights, and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed: Call a poison center/doctor. Collect spillage.
Storage	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
cyclohexane		110-82-7	70 - 80
ethanol		64-17-5	5 - 10
naphtha (petroleum), hydrotreated light		64742-49-0	5 - 10
carbon dioxide		124-38-9	3 - 5
methanol		67-56-1	3 - 5
2-methylpentane		107-83-5	1 - 3
n-hexane		110-54-3	< 1
methyl isobutyl ketone		108-10-1	< 0.2

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	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
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.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. 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

0 0	
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. 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. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. 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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. 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. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. 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. For product usage instructions, see the product label.

Level 3 Aerosol.

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. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in tightly closed container. 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.

Components	Туре	Value
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3
		5000 ppm
cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3
		300 ppm
ethanol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	PEL	260 mg/m3
		200 ppm
methyl isobutyl ketone (CAS 108-10-1)	PEL	410 mg/m3
		100 ppm
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	PEL	400 mg/m3
		100 ppm
n-hexane (CAS 110-54-3)	PEL	1800 mg/m3
		500 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm
	TWA	500 ppm
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
-		
	TWA	5000 ppm
	TWA TWA	5000 ppm 100 ppm
cyclohexane (CAS		
cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5)	TWA	100 ppm
cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5)	TWA STEL	100 ppm 1000 ppm
cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5) methanol (CAS 67-56-1) methyl isobutyl ketone	TWA STEL STEL TWA STEL	100 ppm 1000 ppm 250 ppm
cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5) methanol (CAS 67-56-1)	TWA STEL STEL TWA	100 ppm 1000 ppm 250 ppm 200 ppm

# US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
2-methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
cyclohexane (CAS 110-82-7)	TWA	1050 mg/m3	
		300 ppm	
ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	
	TWA	260 mg/m3	
		200 ppm	
nethyl isobutyl ketone CAS 108-10-1)	STEL	300 mg/m3	
		75 ppm	
	TWA	205 mg/m3	
		50 ppm	
naphtha (petroleum), nydrotreated light (CAS 64742-49-0)	TWA	400 mg/m3	
		100 ppm	
1-hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	

## **Biological limit values**

### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
methyl isobutyl ketone (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
n-hexane (CAS 110-54-3)	0.5 mg/l	2,5-Hexanedio ne, without hydrolysis	Urine	*

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

# Exposure guidelines

US - California OELs: Skin designation	
methanol (CAS 67-56-1)	Can be absorbed through the skin.
n-hexane (CAS 110-54-3)	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.
n-hexane (CAS 110-54-3)	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 Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 1 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 maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye fountain and emergency showers are recommended.			
Individual protection measures,	such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	Wear protective gloves such as: Nitrile. Viton/butyl.		
Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. 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.
Color	Water-white.
Odor	Mild solvent.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-144 °F (-97.8 °C) estimated
Initial boiling point and boiling range	118.4 °F (48 °C) estimated
Flash point	< 0 °F (< -17.8 °C)
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	36 % estimated
Vapor pressure	2413.4 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.79 estimated
Solubility(ies)	
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	489.2 °F (254 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	96 %

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Hydrocarbon fumes and smoke. Aldehydes. Formaldehyde.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause damage to organs by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. 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	May be fatal if swallowed and enters airways.	
Components	Species	Test Res

•	-	•
Components	Species	Test Results
carbon dioxide (CAS 124-38-9)	)	
Acute		
Inhalation		
Gas		
LC50	Rat	470000 ppm, 30 minutes
cyclohexane (CAS 110-82-7)		
<u>Acute</u>		
Oral		
LD50	Rat	29820 mg/kg
ethanol (CAS 64-17-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	20 g/kg
Inhalation		
LC50	Rat	8000 mg/l, 4 hours
Oral		
LD50	Rat	6200 mg/kg
		6.2 g/kg
methanol (CAS 67-56-1)		
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Oral		
LD50	Rat	5628 mg/kg

	Species	Test Results
methyl isobutyl ketone (CAS 108-1	10-1)	
Acute		
Dermal		
LD50	Rabbit	> 3 g/kg
Inhalation		
LC50	Rat	8.2 mg/l, 4 Hours
Oral		
LD50	Rat	2080 mg/kg
naphtha (petroleum), hydrotreated	l light (CAS 64742-49-0)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	61 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
n-hexane (CAS 110-54-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 1300 mg/kg
Oral		
LD50	Rat	15840 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	1	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization	ation.
Germ cell mutagenicity	No data available to indicate product or any compo- mutagenic or genotoxic.	nents present at greater than 0.1% are
Carcinogenicity	Suspected of causing cancer.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
methyl isobutyl ketone (C OSHA Specifically Regulate	AS 108-10-1) 2B Possibly carcino ad Substances (29 CFR 1910.1001-1052)	genic to humans.
Not regulated. US. National Toxicology Pro	ogram (NTP) Report on Carcinogens	
Not listed.	-	
Reproductive toxicity	May damage fertility or the unborn child.	
Specific target organ toxicity - single exposure	Causes damage to organs (central nervous system	, eyes). May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or re	peated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.	
Chronic effects	Causes damage to organs through prolonged or repharmful.	peated exposure. Prolonged inhalation may be

# 12. Ecological information

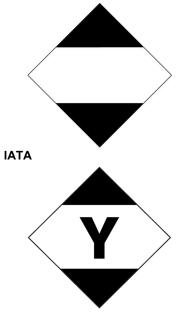
Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
cyclohexane (CAS 110-82-7)			
Aquatic			
Fish L	_C50	Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours
ethanol (CAS 64-17-5)			
Aquatic			
Acute			
Crustacea E	EC50	Water flea (Ceriodaphnia dubia)	5012 mg/l, 48 hours
Fish L	_C50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 10000 mg/l, 96 hours
methanol (CAS 67-56-1)			
Aquatic			
Crustacea E	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish L	_C50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
methyl isobutyl ketone (CAS 10	08-10-1)		-
Aquatic	,		
•	_C50	Fathead minnow (Pimephales promelas)	492 - 593 ma/l. 96 hours
-			
Persistence and degradability	NO GALA IS AVA	ilable on the degradability of any ingredier	
Bioaccumulative potential			
Partition coefficient n-octano	ol / water (log K	(ow) 3.74	
2-methylpentane cyclohexane		3.44	
ethanol		-0.31	
methanol		-0.77	
methyl isobutyl ketone		1.31	
n-hexane		3.9	
Bioconcentration factor (BCI naphtha (petroleum), hydrotrea		10 - 25000	
Mobility in soil	No data availa		
Other adverse effects		rse environmental effects (e.g. ozone depl	etion, photochemical ozone creation
		perine disruption, global warming potential)	
13. Disposal consideration	าร		
Disposal instructions	dispose in sea sewers/water s	is product is considered a RCRA ignitable led containers at licensed waste disposal s supplies. Do not contaminate ponds, water pose in accordance with all applicable regu	site. Do not allow this material to drain into ways or ditches with chemical or used
Hazardous waste code	D001: Waste F	lammable material with a flash point <140	F
US RCRA Hazardous Waste	U List: Referen	ce	
cyclohexane (CAS 110-82	-7)	U056	
Contaminated packaging		containers may retain product residue, fol y containers should be taken to an approv	
14. Transport information			
DOT			
UN number	UN1950		
UN proper shipping name		mable, Limited Quantity	
Transport hazard class(es)			
Class	2.1		
Subsidiary risk	-		
1 . 1 . 17 . 1	2.1		
Label(s)			
Label(s) Packing group	Not applicable.		
	Not applicable.		
Packing group		pt from the regulations.	
Packing group Environmental hazards Marine pollutant	Yes, but exem		es before handling.

Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	Yes, but exempt from the regulations.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.





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)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III)	Section 313 - Toxic Ch	emical: Listed substan	69	
CYCLOHEXANE (CAS 1				
METHANOL (CAS 67-56	S-1)			
METHYL ISOBUTYL KE N-HEXANE (CAS 110-54				
CERCLA Hazardous Substa		1)		
cyclohexane (CAS 110-8	•	, Listed.		
methanol (CAS 67-56-1)		Listed.		
methyl isobutyl ketone (C		Listed.		
n-hexane (CAS 110-54-3 CERCLA Hazardous Substa	-	Listed.		
cyclohexane (CAS 110-8	· · ·	1000 LBS		
methanol (CAS 67-56-1)		5000 LBS		
methyl isobutyl ketone (0		5000 LBS		
n-hexane (CAS 110-54-3	•	5000 LBS		
Response Center (800-4			crequire immediate notification to Committee.	the National
Other federal regulations				
Clean Air Act (CAA) Section		ollutants (HAPs) List		
methanol (CAS 67-56-1) methyl isobutyl ketone (C	CAS 108-10-1)			
n-hexane (CAS 110-54-3 Clean Air Act (CAA) Section		ease Prevention (40 CF	R 68 130)	
Not regulated.			1, 00, 100)	
Safe Drinking Water Act	Not regulated.			
(SDWA)	-	2. Economical Chamical	(24.0FD 4240 02/b) and 4240 0	4(5)(2) and
Chemical Code Numbe	r		s (21 CFR 1310.02(b) and 1310.0	4(I)(Z) and
methyl isobutyl keto Drug Enforcement Adn		6715 1 & 2 Exempt Chemica	al Mixtures (21 CFR 1310.12(c))	
methyl isobutyl keto		35 %WV		
DEA Exempt Chemical	Mixtures Code Numbe	r		
methyl isobutyl keto		6715		
-		-	or Manufacturing Workplace	
ethanol (CAS 64-17 methyl isobutyl keto		Low priority Low priority		
Food and Drug		Low phoney		
Administration (FDA)	Not regulated.			
Superfund Amendments and Re	authorization Act of 1	986 (SARA)		
Classified hazard		erosols, liquids, or solids	)	
categories	Gas under pressure Acute toxicity (any rou	ite of expective)		
	Skin corrosion or irrita			
	Serious eye damage	or eye irritation		
	Reproductive toxicity	toxicity (single or repeate	ed exposure)	
	Aspiration hazard	toxicity (single of repeate		
	Hazard not otherwise	classified (HNOC)		
SARA 302 Extremely hazar Not listed.	dous substance			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
cyclohexane		110-82-7	70 - 80	
methanol		67-56-1	3 - 5	
n-hexane		110-54-3	< 1	
US state regulations				
US. New Jersey Worker and		Know Act		
2-methylpentane (CAS 1 carbon dioxide (CAS 124				
Material name: Chlor-Free® Degrees	or MUO			

cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5) methanol (CAS 67-56-1) methyl isobutyl ketone (CAS 108-10-1) naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-hexane (CAS 110-54-3)

#### US. Massachusetts RTK - Substance List

2-methylpentane (CAS 107-83-5) carbon dioxide (CAS 124-38-9) cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5) methanol (CAS 67-56-1) methyl isobutyl ketone (CAS 108-10-1) naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-hexane (CAS 110-54-3)

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

2-methylpentane (CAS 107-83-5) carbon dioxide (CAS 124-38-9) cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5) methanol (CAS 67-56-1) methyl isobutyl ketone (CAS 108-10-1) naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-hexane (CAS 110-54-3)

### US. Rhode Island RTK

carbon dioxide (CAS 124-38-9) cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5) methanol (CAS 67-56-1) methyl isobutyl ketone (CAS 108-10-1) naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-hexane (CAS 110-54-3)

#### **California Proposition 65**



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

benzene (CAS 71-43-2)	Listed: February 27, 1987
methyl isobutyl ketone (CAS 108-10-1)	Listed: November 4, 2011
California Proposition 65 - CRT: Listed date/De	evelopmental toxin
benzene (CAS 71-43-2)	Listed: December 26, 1997

methanol (CAS 67-56-1) methyl isobutyl ketone (CAS 108-10-1) toluene (CAS 108-88-3) Listed: December 26, 1 Listed: March 16, 2012 Listed: March 28, 2014 Listed: January 1, 1991

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

 benzene (CAS 71-43-2)
 Listed: December 26, 1997

 n-hexane (CAS 110-54-3)
 Listed: December 15, 2017

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

methanol (CAS 67-56-1) methyl isobutyl ketone (CAS 108-10-1) naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-hexane (CAS 110-54-3)

#### Volatile organic compounds (VOC) regulations

#### EPA

VOC content (40 CFR96 %51.100(s))SolutionConsumer productsNot regulated(40 CFR 59, Subpt. C)Solution

#### State

**Consumer products** This product is not for retail sale. It is for use in the manufacturing process only.

VOC content (CA)	96 %	
VOC content (OTC)	96 %	
International Inventories		
Country(s) or region	Inventory name On inventory (ye	es/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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
* A "Vee" indicates that all some		

\*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 Revision date Prepared by Version #	11-04-2014 12-13-2018 Allison Yoon 03
Further information	CRC # 463A-C/1008112-1002461
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.