SAFETY DATA SHEET

1. Identification

Product identifier Chlor-Free® Degreaser

Other means of identification

Product Code No. 03188 (Item# 1003443) Recommended use General purpose degreaser

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries. Inc. Company name

885 Louis Dr. **Address**

Warminster, PA 18974 US

Telephone

215-674-4300 **General Information Technical Assistance** 800-521-3168 **Customer Service** 800-272-4620 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International) Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Category 2 Flammable liquids **Health hazards** Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Carcinogenicity Category 2 Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 1 (central nervous system, eyes)

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word

Hazard statement Highly flammable liquid and vapor. 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. Suspected of damaging fertility. Causes damage to organs (central nervous system, eyes). Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

No. 03188 (Item# 1003443) Version #: 03 Revision date: 12-27-2017 Issue date: 12-27-2017

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. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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 eye irritation persists: Get medical advice/attention. If exposed: Call a poison center/doctor. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. Collect spillage.

Storage Disposal Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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	10 - 20
2-methylpentane		107-83-5	5 - 10
methanol		67-56-1	3 - 5
naphtha (petroleum), hydrotreated light		64742-49-0	3 - 5
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.

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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

Take off immediately all contaminated clothing. Rinse skin with water/shower. 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.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse.

Material name: Chlor-Free® Degreaser

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant 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

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. 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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
General fire hazards

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. 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. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. 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. 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.

Material name: Chlor-Free® Degreaser

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep in an area equipped with sprinklers. 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 Ai Components	Туре	, Value	
cyclohexane (CAS	PEL	1050 mg/m3	
110-82-7)		roce mg/me	
,		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	PEL	410 mg/m3	
(CAS 108-10-1)		G	
		100 ppm	
naphtha (petroleum),	PEL	400 mg/m3	
hydrotreated light (CAS			
64742-49-0)			
		100 ppm	
n-hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
2-methylpentane (CAS	STEL	1000 ppm	
2-methylpentarie (CAS 107-83-5)	SIEL	тооо ррпп	
107-03-3)	TWA	500 ppm	
cyclohexane (CAS	TWA	100 ppm	
110-82-7)	1 447 (του ρριτι	
ethanol (CAS 64-17-5)	STEL	1000 ppm	
methanol (CAS 67-56-1)	STEL	250 ppm	
,	TWA	200 ppm	
methyl isobutyl ketone	STEL	75 ppm	
(CAS 108-10-1)	0.22	. о рр	
,	TWA	20 ppm	
n-hexane (CAS 110-54-3)	TWA	50 ppm	
US. NIOSH: Pocket Guide to Cher			
Components		Value	
	Туре		
2-methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
cyclohexane (CAS	TWA	1050 mg/m3	
110-82-7)			
		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	
methyl isobutyl ketone	STEL	300 mg/m3	
(CAS 108-10-1)			

Material name: Chlor-Free® Degreaser

Components	Туре	Value	
		75 ppm	
	TWA	205 mg/m3	
		50 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	400 mg/m3	
		100 ppm	
n-hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	

Biological limit values

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)	0.4 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)

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

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)

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

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 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. Eye wash 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 Liquid. Water-white. Color Mild solvent. Odor **Odor threshold** Not available. Not available.

-244.7 °F (-153.7 °C) estimated Melting point/freezing point 118.4 °F (48 °C) estimated Initial boiling point and boiling

range

< 0 °F (< -17.8 °C) Tag Closed Cup Flash point

Evaporation rate Fast.

Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Flammability limit - lower 1 % estimated

(%)

36 % estimated Flammability limit - upper

(%)

Vapor pressure 139.7 hPa estimated

> 1 (air = 1)Vapor density 0.76 Relative density

Solubility(ies)

Solubility (water) Negligible. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 489.2 °F (254 °C) estimated

Decomposition temperature Not available. Percent volatile 100 % estimated

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 Carbon oxides. Formaldehyde.

products

11. Toxicological information

Information on likely routes of exposure

May cause damage to organs by inhalation. May cause drowsiness and dizziness. Headache. Inhalation

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

May be fatal if swallowed and enters airways. **Acute toxicity**

Material name: Chlor-Free® Degreaser No. 03188 (Item# 1003443) Version #: 03 Revision date: 12-27-2017 Issue date: 12-27-2017 Components Species Test Results

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 6.2 g/kg

methyl isobutyl ketone (CAS 108-10-1)

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 light (CAS 64742-49-0)

Acute Dermal

LD50 Rabbit > 2000 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 Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

methyl isobutyl ketone (CAS 108-10-1)

2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Suspected of damaging fertility.

Specific target organ toxicity -

Causes damage to organs (central nervous system, eyes). May cause drowsiness and dizziness.

single exposure

Specific target organ toxicity - Not classified.

repeated exposure

may cause chemical pneumonia, pulmonary injury or death.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Very toxic to aquatic life with long lasting effects. **Ecotoxicity**

Components		Species	Test Results
2-methylpentane (CAS 107-8	33-5)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1 - 10 mg/l, 48 hours
Fish	LC50	Fish	1 - 10 mg/l, 96 hours
cyclohexane (CAS 110-82-7))		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours
ethanol (CAS 64-17-5)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	5012 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 10000 mg/l, 96 hours
methanol (CAS 67-56-1)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	18000 - 20000 mg/l, 96 hours
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	18000 - 20000 mg/l, 96 hours
methyl isobutyl ketone (CAS	108-10-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	492 - 593 mg/l, 96 hours
naphtha (petroleum), hydrotr	eated light (CA	AS 64742-49-0)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1 - 10 mg/l, 48 hours
Fish	LC50	Fish	1 - 10 mg/l, 96 hours
n-hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
sistence and degradability	No data is	available on the degradability of any ingredier	ato in the mixture

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-methylpentane 3.74 cyclohexane 3.44 ethanol -0.31 methanol -0.77 methyl isobutyl ketone 1.31 n-hexane 3.9

Bioconcentration factor (BCF)

naphtha (petroleum), hydrotreated light 10 - 25000

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.

Material name: Chlor-Free® Degreaser SDS US

13. Disposal considerations

Disposal instructions If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or

dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used

container. Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN1993 UN number

UN proper shipping name Transport hazard class(es)

Flammable liquids, n.o.s. (cyclohexane RQ = 1360 LBS, ethanol RQ = 978 LBS)

Class Subsidiary risk

3 Label(s) Packing group Ш

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

IB2, T7, TP1, TP8, TP28 Special provisions

3

150 Packaging exceptions 202 Packaging non bulk Packaging bulk 242

IATA

UN1993 **UN number**

UN proper shipping name

Flammable liquid, n.o.s. (cyclohexane, ethanol)

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group **ERG Code** 3H

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

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN number

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (cyclohexane, ethanol)

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant No. F-E, S-E **EmS**

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.

Material name: Chlor-Free® Degreaser

SDS US

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US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

cyclohexane (CAS 110-82-7) methanol (CAS 67-56-1)

methyl isobutyl ketone (CAS 108-10-1)

n-hexane (CAS 110-54-3)

CERCLA Hazardous Substance List (40 CFR 302.4)

cyclohexane (CAS 110-82-7) Listed. methanol (CAS 67-56-1) Listed. methyl isobutyl ketone (CAS 108-10-1) Listed.

CERCLA Hazardous Substances: Reportable quantity

cyclohexane (CAS 110-82-7) 1000 LBS methanol (CAS 67-56-1) 5000 LBS methyl isobutyl ketone (CAS 108-10-1) 5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

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

methanol (CAS 67-56-1)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

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

methyl isobutyl ketone (CAS 108-10-1) 6715

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

methyl isobutyl ketone (CAS 108-10-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

methyl isobutyl ketone (CAS 108-10-1) 6715

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

ethanol (CAS 64-17-5) Low priority methyl isobutyl ketone (CAS 108-10-1) Low priority

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure) categories

Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Hazard not otherwise classified (HNOC)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

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 Community Right-to-Know Act

2-methylpentane (CAS 107-83-5) cyclohexane (CAS 110-82-7) ethanol (CAS 64-17-5) methanol (CAS 67-56-1)

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methyl isobutyl ketone (CAS 108-10-1)
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
n-hexane (CAS 110-54-3)
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US. Massachusetts RTK - Substance List

2-methylpentane (CAS 107-83-5) 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) 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

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/Developmental toxin

benzene (CAS 71-43-2)

methanol (CAS 67-56-1)

methyl isobutyl ketone (CAS 108-10-1)

toluene (CAS 108-88-3)

Listed: December 26, 1997

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

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 CFR 100 %

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

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

VOC content (CA) 100 % VOC content (OTC) 100 %

Material name: Chlor-Free® Degreaser

SDS US

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

Inventory of Existing and New Chemical Substances (ENCS) No Japan Existing Chemicals List (ECL) Korea Yes New Zealand New Zealand Inventory Yes **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Toxic Chemical Substances (TCS) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information, including date of preparation or last revision

12-27-2017 Issue date 12-27-2017 **Revision date** Allison Yoon Prepared by

Version #

CRC # 463A-C/1008112-1002461 **Further information**

HMIS® ratings Health: 2* Flammability: 3

Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 3 Instability: 0

NFPA ratings



Disclaimer

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Material name: Chlor-Free® Degreaser

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No. 03188 (Item# 1003443) Version #: 03 Revision date: 12-27-2017 Issue date: 12-27-2017

^{*}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).