# 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 **Address** 

885 Louis Dr. Warminster, PA 18974 US

Telephone

Website

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

(CHEMTREC)

www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Flammable liquids Category 2

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

Hazardous to the aquatic environment, acute **Environmental hazards** 

hazard

Category 1 Category 1

Hazardous to the aquatic environment,

Category 1

long-term hazard Not classified.

Aspiration hazard

**OSHA** defined hazards

Label elements



Signal word

Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters **Hazard statement** 

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.

Material name: Chlor-Free® Degreaser No. 03188 (Item# 1003443) Version #: 04 Revision date: 12-13-2018 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. 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. 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	5 - 10
naphtha (petroleum), hydrotreated light		64742-49-0	5 - 10
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

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. Prolonged exposure may cause chronic effects.

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.

# 5. Fire-fighting measures

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

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

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

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. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. 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. 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.

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 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.

# 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. Store in tightly closed container. 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 Air Components	Туре	Value
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 Value	ı <b>c</b>	
Components	Туре	Value
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm
	TWA	500 ppm
cyclohexane (CAS 110-82-7)	TWA	100 ppm
ethanol (CAS 64-17-5)	STEL	1000 ppm
methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
methyl isobutyl ketone (CAS 108-10-1)	STEL	75 ppm
	TWA	20 ppm
n-hexane (CAS 110-54-3)	TWA	50 ppm
US. NIOSH: Pocket Guide to Cher Components	nical Hazards Type	Value
2-methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m3
		510 ppm
	TWA	350 mg/m3
		100 ppm
cyclohexane (CAS 110-82-7)	TWA	1050 mg/m3
		300 ppm
ethanol (CAS 64-17-5)	TWA	1900 mg/m3

<b>US. NIOSH: Pocket Guide to Chemical</b>	Hazards
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Components	Туре	Value	
		1000 ppm	
methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	
	TWA	260 mg/m3	
		200 ppm	
methyl isobutyl ketone (CAS 108-10-1)	STEL	300 mg/m3	
		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)	0.5 mg/l	2,5-Hexanedio ne, without hydrolysis	Urine	*	

<sup>\* -</sup> 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)

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.
Color Water-white.
Odor Mild solvent.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -144 °F (-97.8 °C) estimated Initial boiling point and boiling 118.4 °F (48 °C) estimated

range

Flash point  $< 0 \,^{\circ}\text{F} \, (< -17.8 \,^{\circ}\text{C})$ 

**Evaporation rate** Fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower 1 % estimated

(%)

Flammability limit - upper

(%)

36 % estimated

Vapor pressure 139.7 hPa estimated

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

Solubility(ies)

Solubility (water) Negligible.

Partition coefficient Not available.

(n-octanol/water)

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

Decomposition temperatureNot available.ViscosityNot available.Percent volatile98.1 % 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. Hydrocarbon fumes and smoke. Aldehydes. Formaldehyde.

products

# 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.

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**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.

Acute toxicity	May be fatal if swallowed and er	nters airways.
Product	Species	Test Results
Chlor-Free® Degreaser		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2404 mg/kg calculated
Inhalation		
LC50	Rat	36.8 mg/l, 4 hours calculated
Components	Species	Test Results
cyclohexane (CAS 110-82-	7)	
<u>Acute</u>		
Oral	Det	00000
LD50	Rat	29820 mg/kg
ethanol (CAS 64-17-5)		
<u>Acute</u> Dermal		
LD50	Rabbit	20 g/kg
	Nabbit	20 g/kg
Inhalation LC50	Rat	8000 mg/l, 4 hours
Oral	Nat	oooo mga, 4 nodis
LD50	Rat	6200 mg/kg
LDOU	Nat	6.2 g/kg
methanol (CAS 67-56-1)		0.2 g/kg
Acute		
<u> Dermal</u>		
LD50	Rabbit	12800 mg/kg
Oral		5 5
LD50	Rat	5628 mg/kg
methyl isobutyl ketone (CA	S 108-10-1)	O G
Acute	,	
Dermal		
LD50	Rabbit	> 3 g/kg
Inhalation		
LC50	Rat	8.2 mg/l, 4 Hours
Oral		
LD50	Rat	2080 mg/kg
naphtha (petroleum), hydro	otreated light (CAS 64742-49-0)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	61 mg/l, 4 Hours

Material name: Chlor-Free® Degreaser

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 Components
 Species
 Test Results

 Oral LD50
 Rat
 > 5000 mg/kg

 n-hexane (CAS 110-54-3)
 Acute Dermal LD50
 Rabbit
 > 1300 mg/kg

 Oral
 Oral
 Name of the second of

15840 mg/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses serious eye irritation.

irritation

Respiratory or skin sensitization

LD50

**Respiratory sensitization** Not a respiratory sensitizer.

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

**Germ cell mutagenicity**No 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)

Rat

Not regulated.

US. National Toxicology Program (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 repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful.

# 12. Ecological information

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

Components		Species	Test Results
cyclohexane (CAS 11	0-82-7)		
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			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
methyl isobutyl ketone	e (CAS 108-10-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	492 - 593 mg/l, 96 hours

Material name: Chlor-Free® Degreaser

#### 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 -0.31methanol -0.771.31 methyl isobutyl ketone 3.9 n-hexane

**Bioconcentration factor (BCF)** 

naphtha (petroleum), hydrotreated light 10 - 25000

No data available. Mobility in soil

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

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

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.

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

US RCRA Hazardous Waste U List: Reference

cyclohexane (CAS 110-82-7) U056

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 Flammable liquids, n.o.s. (cyclohexane RQ = 1342 LBS, ethanol RQ = 1015 LBS)

Transport hazard class(es)

Class 3 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

Packaging exceptions 150 Packaging non bulk 202 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

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN number** UN1993

UN proper shipping name Transport hazard class(es) FLAMMABLE LIQUID, N.O.S. (cyclohexane, ethanol), MARINE POLLUTANT

Class 3 Subsidiary risk

Material name: Chlor-Free® Degreaser

Packing group || Environmental hazards

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

#### DOT



IATA; IMDG



# Marine pollutant



# 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 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)

methanol (CAS 67-56-1)

methyl isobutyl ketone (CAS 108-10-1)

n-hexane (CAS 110-54-3)

Listed.

Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

cyclohexane (CAS 110-82-7) 1000 LBS

Material name: Chlor-Free® Degreaser

methanol (CAS 67-56-1) 5000 LBS methyl isobutyl ketone (CAS 108-10-1) 5000 LBS n-hexane (CAS 110-54-3) 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)

methyl isobutyl ketone (CAS 108-10-1)

n-hexane (CAS 110-54-3)

# 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)

methyl isobutyl ketone (CAS 108-10-1)

Low priority

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)

categories Acute toxicity (any route of exposure)

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 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)

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)

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)

Material name: Chlor-Free® Degreaser

SDS US

# 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) Listed: December 26, 1997 methanol (CAS 67-56-1) Listed: March 16, 2012 methyl isobutyl ketone (CAS 108-10-1) Listed: March 28, 2014 toluene (CAS 108-88-3) Listed: January 1, 1991

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

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

100 % VOC content (40 CFR

51.100(s))

Not regulated **Consumer products** 

(40 CFR 59, Subpt. C)

**State** 

Japan

Korea

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

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

# 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)

Material name: Chlor-Free® Degreaser

Yes Yes

Existing Chemicals List (ECL)

On inventory (yes/no)\* Country(s) or region Inventory name

New Zealand New Zealand Inventory

**Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) 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

12-27-2017 Issue date **Revision date** 12-13-2018 Allison Yoon Prepared by

Version # 04

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

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professional, or CRC Industries, Inc..

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

No. 03188 (Item# 1003443) Version #: 04 Revision date: 12-13-2018 Issue date: 12-27-2017