SAFETY DATA SHEET

1. Identification

Product identifier Citrus Degreaser - 3.78 L

Other means of identification

Item# 1750381 **Product Code**

Recommended use General purpose degreaser

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Canada Co. Company name 83 Galaxy Blvd **Address**

Unit 35 - 37

Toronto, ON M9W 5X6

Canada

Telephone

General Information 416-847-7750

24-Hour Emergency

800-424-9300 (Canada)

(CHEMTREC) Website

www.crc-canada.ca

Support.CA@crcindustries.com E-mail

2. Hazard identification

Physical hazards Flammable liquids Category 3

> Physical hazards not otherwise classified Category 1

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1 Carcinogenicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

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

Label elements



Signal word

Danger

Hazard statement Flammable liquid and vapor. 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. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting

effects.

Material name: Citrus Degreaser - 3.78 L SDS CANADA 1/9 Item# 1750381 Version #: 01 Issue date: 07-02-2019

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. These alone may be insufficient to remove static electricity. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash 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 or concerned: Get medical advice/attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. Collect spillage.

Storage

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

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	%
d-limonene		5989-27-5	45 - 70
distillates (petroleum), hydrotreated light		64742-47-8	15 - 40
naphtha (petroleum), hydrotreated heavy		64742-48-9	15 - 40
turpentine		9005-90-7	3 - 7
beta-myrcene		123-35-3	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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 immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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 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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemicals. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

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Unsuitable extinguishing media

Specific hazards arising from the chemical

Do not use water jet as an extinguisher, as this will spread the fire.

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. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

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. Avoid breathing 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

Use water spray to reduce vapors or divert vapor cloud drift. 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 product from entering drains.

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. When using do not smoke. 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. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. 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 original 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

Canada. Alberta OELs (Occupation	al Health & Safety Code	, Schedule 1, Table 2)
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Components	Туре	Value	Form
distillates (petroleum), hydrotreated light (CAS	TWA	200 mg/m3	Vapor.
64742-47-8)			

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value
naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	TWA	525 mg/m3

Canada, Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Туре	Value	Form	
distillates (petroleum), hydrotreated light (CAS 64742-47-8)	15 minute	250 mg/m3	Vapor.	
	8 hour	200 mg/m3	Vapor.	

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Canada - Alberta OELs: Skin designation

distillates (petroleum), hydrotreated light Can be absorbed through the skin.

(CAS 64742-47-8)

Canada - British Columbia OELs: Skin designation

distillates (petroleum), hydrotreated light Can be absorbed through the skin.

(CAS 64742-47-8)

Canada - Saskatchewan OELs: Skin designation

distillates (petroleum), hydrotreated light Can be absorbed through the skin.

(CAS 64742-47-8)

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.

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. Rubber.

Wear appropriate chemical resistant clothing. Wear suitable protective clothing. Other

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

> 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.

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General hygiene considerations

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

9. Physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid. Colorless. Color Odor Citrus.

Not available. Odor threshold Not available. рH

-140.8 °F (-96 °C) estimated Melting point/freezing point 315 °F (157.2 °C) estimated Initial boiling point and boiling

range

Flash point 100 °F (37.8 °C) Setaflash

Fast. **Evaporation rate**

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 % estimated

6.1 % estimated

(%)

Flammability limit - upper

(%)

2.5 hPa estimated Vapor pressure

Vapor density > 1 (air = 1)

0.82 Relative density

Solubility(ies)

Solubility (water) Negligible. Not available. Partition coefficient

(n-octanol/water)

450 °F (232.2 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. Not available. **Viscosity**

Other information

Percent volatile 78.9 % estimated

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

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.

Alkalies. Reducing agents. Strong acids. Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

Carbon oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Causes serious eye irritation. Eye contact

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Ingestion 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. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components Species Test Results

distillates (petroleum), hydrotreated light (CAS 64742-47-8)

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg, 2.5 hours

d-limonene (CAS 5989-27-5)

Acute

Dermal

LD50 Rabbit 5 g/kg

Oral

LD50 Rat 4400 mg/kg

naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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

beta-myrcene (CAS 123-35-3) 2B Possibly carcinogenic to humans.

d-limonene (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

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Test Results Components **Species**

distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Aquatic

Acute

EC50 Crustacea Water flea (Daphnia magna) > 1000 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout > 1000 mg/l, 96 hours

(Oncorhynchus mykiss)

d-limonene (CAS 5989-27-5)

Aquatic

LC50 Fish Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours

Acute

EC50 Crustacea Water flea (Daphnia magna) 0.421 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours

turpentine (CAS 9005-90-7)

Aquatic

Acute

Crustacea EC50 10 - 100 mg/l, 48 hours Water flea (Daphnia magna)

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)

beta-myrcene 4.17 4.232 d-limonene

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

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

TDG

UN number UN1993

UN proper shipping name Transport hazard class(es)

FLAMMABLE LIQUID, N.O.S. (d-limonene, petroleum distillates), MARINE POLLUTANT

Class 3 Subsidiary risk Ш Packing group

Environmental hazards Yes.

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

Special provisions 16

IATA

UN1993 **UN number**

UN proper shipping name

Transport hazard class(es)

Flammable liquids, n.o.s. (d-limonene, petroleum distillates)

Class 3 Subsidiary risk **Environmental hazards** Yes. Ш Packing group 3L **ERG Code**

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 UN1993

UN proper shipping name Flammable liquids, n.o.s. (d-limonene, petroleum distillates), MARINE POLLUTANT

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group

Environmental hazards

Yes. Marine pollutant **EmS** F-E, <u>S-E</u>

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

IATA; IMDG; TDG



15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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

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

Europe European Inventory of Existing Commercial Chemical

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) No Existing Chemicals List (ECL) Korea Yes New Zealand New Zealand Inventory Yes

> Philippine Inventory of Chemicals and Chemical Substances (PICCS)

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

16. Other information

Philippines

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Version #

CRC # 598B/1002631 **Further information**

Disclaimer The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Canada Co..

Revision information Product and Company Identification: Product Codes

Hazard identification: GHS Symbols Hazard identification: Other hazards

Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

GHS: Classification

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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).