

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
 Product name : Citra Power Pro
 CAS-No. : 5989 27 5
 Product code : 79
 Product group : Trade product

1.2. Recommended use and restrictions on use

Recommended Use: Cleaner/Degreaser
 Restrictions on Use: none known

1.3. Supplier

Nypower Industries Ltd.
 111 Fisher St.
 P.O. Box PO Box 715
 Okotoks, AB - Canada
 T 403 995-2598 - F 403 995-1487
gm@nypowerind.com - www.nypowerind.com

1.4. Emergency telephone number

Emergency number : 403 899-4226

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flammable liquids Category 3	Flammable liquid and vapor
Skin corrosion/irritation Category 2	Causes skin irritation
Skin sensitization, Category 1	May cause an allergic skin reaction
Hazardous to the aquatic environment - Acute Hazard Category 1	Very toxic to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 1	Very toxic to aquatic life with long lasting effects

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : Flammable liquid and vapor
 Causes skin irritation
 May cause an allergic skin reaction
 Very toxic to aquatic life
 Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS CA) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use only non-sparking tools.
 Take action to prevent static discharges.
 Keep away from heat, hot surfaces, sparks, open flame, and other ignition sources. No smoking
 Use explosion-proof electrical / ventilation / lighting / equipment.
 Avoid breathing vapors, mist.
 Wash hands, forearms thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Avoid release to the environment.
 Wear protective gloves (rubber or nitrile) /protective clothing/eye protection/face protection.
 IF ON SKIN: Wash with plenty of water.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
 If skin irritation occurs: Get medical advice/attention.
 If skin irritation or rash occurs: Get medical advice/attention.

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Take off contaminated clothing and wash it before reuse.
In case of fire: Use media other than water to extinguish.
Collect spillage.
Store in a well-ventilated place. Keep cool
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	% by volume	Classification (GHS CA)
(+)-limonene	(+)-1-methyl-4-isopropenyl-1-cyclohexene / (+)-4-isopropenyl-1-methylcyclohexene / (+)-cajeputene / (+)-carvene / (+)-citrene / (+)-para-mentha-1,8-diene / (+)-p-mentha-1,8-diene / (+)-R-limonene / (R)-(+)-4-isopropenyl-1-methyl-1-cyclohexene / (R)-(+)-limonene / (R)-1-methyl-4-(1-methylethenyl)cyclohexene / (R)-4-isopropenyl-1-methyl-1-cyclohexene / (R)-p-mentha-1,8-diene / 1,8-menthadiene, D- / 1-methyl-4-(1-methylethenyl)cyclohexene, (R)- / cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)- / cyclohexene, 1-methyl-4-(1-methylethenyl)-, (theta)- / cyclohexene, 4-isopropenyl-1-methyl- / D-(+)-limonene / dextro-limonene / dextro-para-mentha-1,8-diene / D-para-mentha-1,8-diene / D-p-mentha-1,8-diene / limonene, (R)-(+)- / limonene, D-(+)- / limonene, dextro- / para-mentha-1,8-diene, (R)-(+)- / p-mentha-1,8-diene, (R)-(+)- / p-mentha-1,8-diene, D- / R-(+)-limonene / refchole	(CAS-No.) 5989-27-5	80 – 90	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Fire hazard : Flammable liquid and vapor.

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Explosion hazard	: Explosion risk in case of fire.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Evacuate area. Do not fight fire when fire reaches explosives.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for personal protective equipment necessary

6.2. Methods and materials for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves (Rubber or Nitrile) DO NOT USE VINYL.

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: clear

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Odour	: Citrus Odour
Odor threshold	: No data available
pH	: 6.8 – 7.5
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: -96 °C
Freezing point	: No data available
Boiling point	: 175 °C
Flash point	: 48 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (Upper Limits)	: 6.1
Flammability (Lower Limits)	: 0.07
Vapor pressure	: No data available
Vapor pressure at 25 °C	: 1.98 mm Hg
Relative density	: 0.86
Viscosity: Kenematic & Dynamic	: No data available
Solubility	: Miscible with water and solvents
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosion limits	: No data available
Vapour Density	: 4.7

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: Flammable liquid and vapor.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

(+)-limonene (5989-27-5)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal)

Skin corrosion/irritation	: Causes skin irritation. pH: 6.8 – 7.5
Serious eye damage/irritation	: Not classified pH: 6.8 – 7.5
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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	: Not classified
STOT-repeated exposure	
Aspiration hazard	: Not classified
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

(+)-limonene (5989-27-5)	
LC50 fish 1	720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	0.32 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
BCF fish 1	864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)

12.2. Persistence and degradability

(+)-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance

12.3. Bioaccumulative potential

(+)-limonene (5989-27-5)	
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
BCF fish 1	864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)

12.4. Mobility in soil

(+)-limonene (5989-27-5)	
Ecology - soil	Low potential for mobility in soil.
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)

12.5. Other adverse effects

Ozone	: Not classified
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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG)	: UN2319
Packing group	: III - Minor Danger
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Transport document description	: UN2319 TERPENE HYDROCARBONS, N.O.S. (terpene hydrocarbons), 3, III
Proper Shipping Name (Transportation of Dangerous Goods)	: TERPENE HYDROCARBONS, N.O.S. terpene hydrocarbons

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Hazard labels (TDG) : 3 - Flammable liquids



Explosive Limit and Limited Quantity Index : 5 L
Excepted quantities (TDG) : E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 60 L
Marine pollutant : Yes (IMDG only)



14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 2319
Proper Shipping Name (IMDG) : TERPENE HYDROCARBONS, N.O.S.
Transport document description (IMDG) : UN 2319 TERPENE HYDROCARBONS, N.O.S. (terpene hydrocarbons), 3, III (32°C c.c.)
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : III - substances presenting low danger

IATA

UN-No. (IATA) : 2319
Proper Shipping Name (IATA) : Terpene hydrocarbons, n.o.s.
Transport document description (IATA) : UN 2319 Terpene hydrocarbons, n.o.s. (terpene hydrocarbons), 3, III
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. National regulations

(+)-limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

(+)-limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor : None
Issue date : 07/28/2020

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.