

**SECTION 1 - IDENTIFICATION**

**Product identifier/Trade name:** INSTINCT D-FORCE POWER DEGREASER WITH D-LIMONENE

**Other means of identification:**

**Recommended use:** Heavy duty degreaser and multi-purpose cleaner

**Restriction on use:** For industrial, institutional and food plants use only.

**Initial supplier identifier:** INO SOLUTIONS®  
C.P. 1932 Montréal QC  
H1J 3A1  
Téléphone: 1.888.ino.solu (466-7658)

**Emergency phone number:** (613) 996-6666 (CANUTEC)

**SECTION 2 - HAZARDS IDENTIFICATION**

**2a WHMIS 2015 - GHS (Globally Harmonized System) classification**

This product is classified as:  
SKIN CORROSION/IRRITATION Category 2  
EYE DAMAGE/IRRITATION Category 2

**2b Label elements**



**Precautionary statement**

Wash hands thoroughly after handling. Wear rubber gloves, protective clothing, eye or face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Signal word:**

Warning

**Hazard statements**

Causes skin irritation and serious eye irritation.

<b>SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS</b>
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Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Ethoxylated alcohol	68131-39-5	1-5	Eye irritation, category 2 Skin irritation, category 2
Sodium metasilicate	6834-92-0	1-5	Skin corrosion/irritation category 1 Specific target organ toxicity (single exposure), category 3
d-Limonene	5989-27-5	1-5	Flammable liquid, category 3 Skin irritation, category 2 Skin sensitizer, category 1

<b>SECTION 4 - FIRST AID MEASURES</b>
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**4a Description of first aid measures****Eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Skin contact:**

Wash with plenty water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.

**Inhalation:**

Remove person to fresh air and keep comfortable for breathing.

**Ingestion:**

Wash out mouth with water (only if person is conscious). Get medical advice if person is unwell.

**4b Most important symptoms and effects**

**Eye:** May cause severe irritation, redness, tears, burning sensation.

**Skin:** May cause severe irritation.

**Inhalation:** Breathing mists coming out of product may cause irritation of respiratory tract.

**Ingestion:** May cause irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

**4c Immediate medical attention and special treatment needed**

No special treatment found.

<b>SECTION 5 - FIRE FIGHTING MEASURES</b>
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**5a Extinguishing media**

Suitable extinguishing media:

Water (if possible avoid powerful sprays), foam, dry chemicals, carbon dioxide. Product itself is not flammable.

Unsuitable extinguishing media:

None known.

**Specific hazards for product**

Hazardous combustion products:

Oxides of carbon, nitrogen, phosphorous, ammonia and other irritating gases.

**Special protective equipment and precautions for firefighters**

Special fire-fighting procedures/equipment:

During a fire, irritating smoke and fumes may be generated. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from irritating products produced during the combustion. Move containers from fire area if it can be done without risk. A stream of water directed into the product generates a lot of foam.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6a Personal precautions, protective equipment and emergency procedures**

Personal protection:

Avoid contact with eyes and skin. Use adequate aeration and ventilation. Floor will be slippery in case of a spill. Use appropriate personal protection equipment (see section 8)

**6b Methods and materials for containment and cleaning:**

Stop the leak. For large spills, pump the product into drums or clean up spills using absorbent material. Resume cleaning by rinsing with water. Caution: floors will be slippery.

**6c Environmental precautions:**

Product is biodegradable but contains phosphates. Do not let product go to the sewers.

**SECTION 7 - HANDLING AND STORAGE**

**7a Precautions for Safe handling:**

Avoid contact with eyes and skin. When used as directed, no special precautions.

**7b Condition for safe storage:**

Store in a sealed container in a well-ventilated place. Do not store with food products. Keep from freezing.

**7c Special packaging materials:** none.

No incompatibility with most materials found in most workplaces.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**8a Control parameters**

	Ontario Time-weighted Average Limit (TWA)	Ontario Short-Term Exposure Limit (STEL)	Notations
For all ingredients	None established	None established	

**8b Engineering controls:**

Not required under normal applications.

**8c Individual protection measures**

Respiratory Protection:

Not required under normal applications.

Skin protection and other protective equipment:

Rubber gloves. Waterproof boots for large spills.

Eye / face protection:

In case of possible contact, safety glasses.

General hygiene considerations:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with eyes and skin. Never eat, drink, or smoke in work areas. Good hygiene is recommended after use of this product.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and odour:</b>	Orange liquid, orange scent
<b>Odour threshold:</b>	N/Av
<b>pH :</b>	Approximately 12
<b>Melting point and freezing point:</b>	Approximately 0 °C
<b>Boiling point:</b>	Approximately 100 °C
<b>Flash point:</b>	None to boil
<b>Evaporation rate (n-BuAc =1):</b>	Approximately 0.4 (water)
<b>Lower flammable limit (% by volume):</b>	Not applicable
<b>Upper flammable limit (% by volume):</b>	N/Av.
<b>Explosion data - Sensitivity to mechanical impact:</b>	Not sensitive
<b>Explosion data - Sensitivity to static discharge:</b>	Not sensitive
<b>Vapour pressure (mm Hg)</b>	Approximately 20 (water)
<b>Vapour density:</b>	Approximately 0.6 (water)
<b>Specific gravity or density (water = 1 at 4 °C):</b>	Approximately 1.02 g/cm <sup>3</sup> @ 20 °C
<b>Solubility in water:</b>	Miscible
<b>Partition coefficient – n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity:</b>	<10 cps @ 25 °C

## SECTION 10 - STABILITY AND REACTIVITY

**10a Reactivity:**

Not applicable when used as directed.

**10b Chemical stability :**

Stable at room temperature, in normal handling and storage conditions.

**10c Possibility of hazardous reactions:**

May react with strong acids and strong oxidizing agents.

**10d Conditions to avoid:**

Avoid contact with strong acids and oxidizers.

**10e Incompatible materials**

Strong acids and oxidizers

**10f Hazardous decomposition products:**

With strong oxidizers: oxides of carbon, nitrogen, phosphorus, ammonia. With strong acids: heat, water vapour.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Primary entry route(s):** Eye, skin and ingestion.

**Eye:** May cause severe irritation, redness, tears, burning sensation.

**Skin:** May cause irritation.

**Inhalation:** Breathing mists coming out of product may cause severe irritation of respiratory tract.

**Ingestion:** May cause severe irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

**Carcinogenicity:**

No ingredients classified as carcinogenic.

**Teratogenicity, mutagenicity, other reproductive effects:**

No ingredients classified as such.

**Skin sensitization:**

d-limonene is classified as a skin sensitizer

**Respiratory tract sensitization:** Not available  
**Synergistic materials:** Not available  
**Other important hazards:** Not available

**Toxicological data:** The calculated LD<sub>50</sub> for this product is greater than 12,000 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD <sub>50</sub> (route, species)	LC <sub>50</sub> # hours (species)
Ethoxylated alcohol	>2,000 mg/Kg (oral, rat) >2,000 mg/Kg (dermal, rabbit)	N/AV.
Sodium metasilicate	847 mg/kg (oral, rat)	N/AV.
d-Limonene	5000 mg/kg (oral, rat) 2000 mg/kg (dermal, rabbit)	N/AV.

For more details, refer to Section 3.

**SECTION 12 - ECOLOGICAL INFORMATION**

**12a Ecotoxicity :**

TOXICITY (Fish)	Results	Exposure time	Method
Ethoxylated alcohol	Bluegill 2.1 mg/L	96H	N/AV.
Sodium metasilicate	Leuciscus idus >146 mg/L	96H	N/AV.
d-Limonene	Rainbow trout >408 mg/L	48H	N/AV.

TOXICITY (Daphnia)	Results	Exposure time	Method
Ethoxylated alcohol	1.9 mg/L	48H	N/AV.
Sodium metasilicate	EC50 >146 mg/L	24H	N/AV.
d-Limonene	EC50 > 230 mg/L	96H	N/AV.

TOXICITY (Algae)	Results	Exposure time	Method
Ethoxylated alcohol	<i>Selenastrum capricornutum</i> 0,7 mg/L	72H	N/AV.
Sodium metasilicate	<i>Desmodesmus subspicatus</i> 207 mg/L	72H	N/AV.
d-Limonene	<i>Selenastrum</i> EC50 = 230	96H	N/AV.

**12b Persistence and degradability:** Product is expected to be readily biodegradable as per OECD 301.

**12c Bioaccumulation potential:** Not available

**12d Mobility in soil:** There is no test data on this product.

**12e Other adverse effect** No applicable information found

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Eliminate according to federal, provincial and local regulations.

**SECTION 14 - TRANSPORTATION INFORMATION**

**Transportation of Dangerous Goods (TDG) in Canada :** Not regulated

UN number  
Proper shipping name:  
Class:  
Packing group:  
Special case:  
Limited Quantity

**SECTION 15 - REGULATORY INFORMATION**

**In Canada**

**WHMIS information:**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and this safety data sheet (SDS) contains all the information required by the HPR.

**WHMIS 2015 Classification:** See section 2a

**CEPA information:** Ingredients are listed on the DSL inventory.

**SECTION 16 - OTHER INFORMATION**

**Date of latest revision** 2016-05-03

**References:**

1. Manufacturer'/suppliers' MSDS.
2. Occupational Exposure Limits for Ontario Workplaces required under Regulation 833
3. International Agency for Research on Cancer Monographs
4. The European Chemicals Agency (ECHA) website.

**Abbreviations:**

ACGIH American Conference of Governmental Industrial Hygienists  
CAS Chemical Abstract Service  
CEPA Canadian Environmental Protection Act  
cps Centipoises  
DSL Domestic Substance List  
HMIS Hazardous Material Information System  
IARC International Agency for Research on Cancer  
LC Lethal concentration

LD	Lethal Dosage
N/Av	Not available
N/Ap	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

End of the MSDS