

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier/Trade name:** INO SHOP 5 HEAVY DUTY DEGREASER, READY TO USE

**Product code/Internal Identification:** SRTL

**Product use/Description:** Heavy Duty Degreaser, Ready to use.

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

**Initial Supplier Identifier:** INO SOLUTIONS.  
9900 Boulevard du Golf  
Anjou, Québec, Canada H1J 2Y7  
Phone: 1-888-466-7658

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

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients	CAS #	% (weight)	ACGIH TLV	OSHA PEL
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	0.1-1	N/Av.	N/Av.
Alkyl dimethyl ethylbenzyl ammonium chloride	68956-79-6	0.1-1	N/Av.	N/Av.
Diethyleneglycol butyl ether	112-34-5	5-10	N/Av.	N/Av.

The actual concentrations are withheld as a trade secret.

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Yellow liquid, lemon scent. CAUTION. May cause eye and skin irritation.

**POTENTIAL HEALTH EFFECTS** (for more details, refer to Section 11)

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

**Eye:** May cause irritation which may be severe if not rinsed rapidly.

**Skin:** Direct, short-term skin contact may cause irritation which may be severe if not rinsed rapidly. May be absorbed through skin in harmful amounts.

**Inhalation:** May cause irritation

**Ingestion:** May be harmful.

**Long-term (chronic) exposure:** Prolonged contact with the product may cause dryness, slight irritation.

**Conditions aggravated by exposure:** None expected.

**Carcinogenic status:** See TOXICOLOGICAL INFORMATION, Section 11.  
**Additional health hazards:** For further information, see TOXICOLOGICAL INFORMATION, Section 11.  
**Potential environmental effects:** See ECOLOGICAL INFORMATION, Section 12.

#### SECTION 4 - FIRST AID MEASURES

**Inhalation:**

Bring the person to fresh air. Seek medical attention if discomfort persists.

**Skin contact:**

Rinse with water. Remove soiled clothes and wash before wearing. Seek medical attention should an irritation develop.

**Eye contact:**

Immediately rinse with plenty of water for 15 minutes, keeping eyelids open. If irritation persists, repeat flushing and seek medical attention immediately.

**Ingestion:**

If conscious, give plenty of water. Never give anything by mouth if the person is unconscious. Do not induce vomiting. Seek immediate medical attention.

#### SECTION 5 - FIRE FIGHTING MEASURES

**Fire hazards/conditions of flammability:**

Not flammable under normal handling conditions. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Flash point (Method):** None

**Lower flammable limit (% by volume):** N/Av

**Upper flammable limit (% by volume):** N/Av

**Explosion data - Sensitivity to mechanical impact:** Not sensitive.

**Explosion data - Sensitivity to static discharge:** Probably not very sensitive.

**Auto-ignition temperature:** N/Av

**Suitable extinguishing media:**

Water, foam, dry chemicals, carbon dioxide.

**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.

**Hazardous combustion products:**

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

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Wear adequate personal protective equipment (See Section 8).

**Spill response/Cleanup:**

Wear personal protective equipment. Stop the leak if you can do so without risk. Pump the product into drums for disposal; or clean up spills using absorbent material and place in waste container for destruction. Resume cleaning by rinsing with water.

**Environmental precautions:**

Do not let concentrate go to sewers.

**Prohibited materials:** N/Av

Special spill response procedures: N/Av

## SECTION 7 - HANDLING AND STORAGE

### Safe handling procedures:

Before handling, it is important that engineering controls are operating, and that protective equipment requirement and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Avoid inhaling vapours or mists. Avoid contact with skin, eyes, and clothing. Keep away from heat and flame. Keep containers closed when not in use. Do not use with incompatible materials such as strong oxidizing agents.

### Storage requirements:

Store in a tightly sealed container, in a well-ventilated room between 10°C and 30°C. Do not store with food products. Keep from freezing.

Special packaging materials: N/Av

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Engineering controls:

No special engineering controls for normal use.

### Respiratory Protection:

Not required under normal applications. In case of prolonged contact, or if engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire. Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirator if the exposure limits are unknown.

### Skin protection and other protective equipment:

Use impervious (rubber or nitrile) gloves. Wear waterproof boots for prolonged contact with spills.

### Eye / face protection:

Wear protective chemical safety goggles to manipulate large quantities.

### General hygiene considerations:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with eyes. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material.

**Permissible exposure levels:** For individual ingredient exposure levels, see Section 2.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical state, colour and odour:** Yellow liquid, lemon scent.

**Odour threshold:** N/Av

**pH:** 12

**Boiling point:** Approximately 100 °C

**Melting/freezing point:** Approximately 0 °C

**Vapour pressure:** Approximately 20 mm Hg (water)

**Solubility in water:** Complete.

**Coefficient of oil/water distribution:** N/Av

**Specific gravity or density (water = 1, at 4 °C):** 1.0 g/cm<sup>3</sup>@ 20 °C

**Vapour density:** Approximately 0.6 (water)

**Evaporation rate:** Approximately 0.4 (water)

**% Volatile by volume:** Approximately 90

Viscosity: < 100 cps @ 25 °C

**SECTION 10 - REACTIVITY AND STABILITY DATA**

**Stability and reactivity:**

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

**Polymerisation:** Hazardous polymerization will not occur.

**Conditions to avoid:**

Avoid strong oxidizing agents and strong acids

**Materials to avoid:**

Avoid strong oxidizing agents.

**Hazardous decomposition products:**

Carbon oxides, nitrogen oxides, ammonia, and other irritant gases.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicological data:** The calculated LD<sub>50</sub> for this product is greater than 5,000 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD <sub>50</sub> (route, species)	LC <sub>50</sub> # hours (species)
Alkyl dimethyl benzyl ammonium chloride	300 mg/Kg (oral, rat)	N/Av.
Alkyl dimethyl ethylbenzyl ammonium chloride	Approximately 50-500 mg/kg (oral, rat)	N/Av.
Diethyleneglycol butyl ether	3384 mg/kg (oral, rat)	N/Av.

**For more details, refer to Section 3.**

**Carcinogenicity:** No ingredient listed by IARC, ACGIH, NTP and OSHA as a possible carcinogen.

**Teratogenicity, mutagenicity, other reproductive effects:** N/Av.

**Skin sensitization:** N/Av.

**Respiratory tract sensitization:** N/Av.

**Synergistic materials:** N/Av.

**Other important hazards:** N/Av

**SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental effects:** Do not let concentrated product go to the sewers

**Important environmental characteristics:** No other applicable information found.

**Aquatic toxicity:** There is no test data on this product.

**SECTION 13 - WASTE DISPOSAL**

**Handling and storage conditions for disposal:**

Store material for disposal as indicated in Handling and Storage (Section 7).

**Methods of disposal:**

Dispose according to existing federal, provincial, and municipal regulations.

**SECTION 14 - TRANSPORTATION INFORMATION**

**Transportation of Dangerous Goods (TDG) in Canada:**

Proper shipping name: Not Regulated  
Class: N/Ap  
Identification number: N/Ap  
Packing group: N/Ap  
Special case: N/Ap

**SECTION 15 - REGULATORY INFORMATION**

**In Canada**

**WHMIS information:**

Not regulated under WHMIS.

**WHMIS Classification:**

Not regulated under WHMIS.

**CEPA information:**

Ingredients are listed on the DSL inventory.

**Other information:**

**HMIS:** 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe  
**Health Hazard:** 1  
**Fire Hazard:** 1  
**Reactivity:** 1  
**Personal Protection:** (See section 8.)  
**NFPA:** 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe  
**Fire Hazard:** 1  
**Reactivity:** 1  
**Specific Hazard:** None

**SECTION 16 - OTHER INFORMATION**

**Date:** 2022-06-16

**References:**

1. Manufacturer'/suppliers' SDS.
2. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
3. International Agency for Research on Cancer Monographs, searched 2006.

**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  
HSDB Hazardous Substance Data Bank

**Material Safety Data Sheet: INO SHOP 5 HEAVY DUTY DEGREASER**

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 SDS