

**SECTION 1 - IDENTIFICATION**

**Product identifier/Trade name:** INO CHEF 4 DISHWASHING LIQUID WITH LEMON FRAGRANCE

**Other means of identification:**

**Recommended use and restriction on use:** Dish detergent

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

**Initial supplier identifier:** INO SOLUTIONS  
C.P. 1932, MONTRÉAL, QC  
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 not classified under WHMIS 2015 - GHS

**2b Label elements**

None as per WHMIS 2015

**Precautionary statement**

Not regulated under WHMIS 2015. See applicable sections.

**Signal word:**

None as per WHMIS 2015

**Hazard statement**

None as per WHMIS 2015

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Sodium linear alkylbenzene sulfonate	68081-81-2	3-7	Acute toxicity oral and skin contact, category 4 Eye irritation, category 2

**SECTION 4 - FIRST AID MEASURES**

**4a Description of first aid measures**

**Eye contact:**

Flush or rinse eyes with water after contact. If eye irritation persists, get medical advice.

**Skin contact:**

Rinse with water. If irritation occurs, get medical advice.

**Inhalation:**

No effect expected.

**Ingestion:**

Rinse mouth with water. Never give anything by mouth if the person is unconscious.

**4b Most important symptoms and effects**

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

**Skin:** No effect expected.

**Inhalation:** No effect expected.

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

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

No special treatment

**SECTION 5 - FIRE FIGHTING MEASURES**

**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 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. Floor will be slippery in case of a spill.

**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. Do not let large quantities go to the sewers.

**SECTION 7 - HANDLING AND STORAGE**

**7a Precautions for safe handling:**

Avoid contact with eyes. 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
	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:

Waterproof boots for large spills. Rubber gloves.

Eye / face protection:

Not required under normal applications. In case of possible eye contact, safety glasses are advised.

General hygiene considerations:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with eyes. Never eat, drink, or smoke in work areas.

Good hygiene is recommended after use of this product.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and odour:**

Colourless liquid, lemon scent

**Odour threshold:**

N/Av

**pH :**

6.5-7.5

**Melting point and freezing point:**

Approximately 0 °C

**Boiling point:**

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>	N/Av
<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>	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>	200-400 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 oxidizers.

### 10d Conditions to avoid:

Avoid contact with strong oxidizers.

### 10e Incompatible materials

Strong oxidizers

### 10f Hazardous decomposition products:

With strong oxidizers: heat, water vapour. Oxides of carbon, nitrogen and other irritating gases.

## SECTION 11 - TOXICOLOGICAL INFORMATION

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

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

**Skin:** No effect expected. Continuous and prolonged contact with the undiluted product may lead to skin irritation.

**Inhalation:** No effect expected.

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

### Carcinogenicity:

No ingredient listed by IARC as a possible carcinogen.

### Teratogenicity, mutagenicity, other reproductive effects:

Mutagenic tests have been negative for ingredients

### Skin sensitization:

Ingredients not sensitizing as per OECD 406

### 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 10,000 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD <sub>50</sub> (route, species)	LC <sub>50</sub> # hours (species)
Sodium linear alkylbenzene sulfonate	1,080 mg/kg (dermal, rabbit) >2,000 mg/kg (oral, rat)	N/Av

For more details, refer to Section 3.

**SECTION 12 - ECOLOGICAL INFORMATION**

**12a Ecotoxicity :**

TOXICITY (Fish)	Results	Exposure time	Method
Sodium linear alkylbenzene sulfonate	3.0	96H	Not available

TOXICITY (Daphnia)	Results	Exposure time	Method
Sodium linear alkylbenzene sulfonate	1.62 mg/L	48H	Not available

TOXICITY (Algae)	Results	Exposure time	Method
Sodium linear alkylbenzene sulfonate	Selenastrum capricornutum), 29,0 mg/L	48H	Not available

**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	Not applicable
Proper shipping name:	Not applicable
Class:	Not applicable
Identification number:	Not applicable
Packing group:	Not applicable
Special case:	Not applicable

**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 Classification:** See section 2a

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

<b>SECTION 16 - OTHER INFORMATION</b>
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**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