

## SECTION 1 - IDENTIFICATION

**Product identifier/Trade name:** INO EKO 7 DEGREASER, Tangerine oil

**Other means of identification:**

**Recommended use:** Heavy duty cleaner & degreaser

**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 classified as a skin irritant category 2 and an eye irritant category 2

### 2b Label elements



**Pictogram**

### Precautionary statement

Wash hands thoroughly after handling. Wear eye protection. Wear rubber gloves.

**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.**

**IF ON SKIN: Wash with plenty water. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.**

**Signal word:**

**Warning.**

### Hazard statement

Causes serious eye irritation. Causes skin irritation.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients   | CAS #      | % (weight) | GHS CLASSIFICATION  |
|---|------------|------------|---|
| Ethoxylated alcohol   | 68991-48-0 | 1-5        | Eye irritation, category 2                                |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | 0.1-1      | Eye irritation, category 2<br>Skin irritation, category 2 |
| Sodium carbonate  | 497-19-8   | 1-5        | Eye irritation, category 2                                |

## SECTION 4 - FIRST AID MEASURES

### 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. If eye irritation persists, get medical advice.

#### Skin contact:

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

#### Inhalation:

No effect expected.

#### Ingestion:

Rinse mouth. Call a doctor if you feel unwell. 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:** May cause irritation.

**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 jets), 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. 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. 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 |
|---|---|--|-----------|
| Ethoxylated alcohol   | None established                          | None established                         |           |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | None established                          | None established                         |           |
| Sodium carbonate  | 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.

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

|   |   |
|---|---|
| <b>Appearance and odour:</b>                              | Colourless to yellow liquid, tangerine oil odour. |
| <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>               | 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>   | 1.06 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>   | <100 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.

**10d Conditions to avoid:**

Avoid contact with strong acids.

**10e Incompatible materials**

Strong acids

**10f Hazardous decomposition products:**

With strong acids: heat, water vapour.

## SECTION 11 - TOXICOLOGICAL INFORMATION

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

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

**Skin:** May dry skin. Prolonged contact may cause 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) |
|---|---|------------------------------------|
| Ethoxylated alcohol   | >2,000 mg/kg (oral, rat)<br>>2,000 mg/kg (dermal, rabbit) | Not available                      |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 1,850 mg/kg (oral, rat)<br>>2,000 mg/kg (dermal, rabbit)  | Not available                      |
| Sodium carbonate  | 4,090 mg/kg (oral, rat)<br>2,210 mg/kg (dermal, rabbit)   | Not available                      |

For more details, refer to Section 3.

## SECTION 12 - ECOLOGICAL INFORMATION

### 12a Ecotoxicity :

| TOXICITY (Fish)   | Results  | Exposure time | Method        |
|---|--|---------------|---------------|
| Ethoxylated alcohol   | 70.1 mg/kg   | 48H           | Not available |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Rainbow Trout No Observable Effect Concentration 1,70 mg/L | 96H           | Not available |
| Sodium carbonate  | Trout and salmon 68-80 mg/L                                | 96H           | Not available |

| TOXICITY (Daphnia)  | Results   | Exposure time | Method        |
|---|-----------|---------------|---------------|
| Ethoxylated alcohol   | 5.3 mg/L  | 48H           | Not available |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 16,6 mg/L | 48H           | Not available |
| Sodium carbonate  | >300 mg/L | 48H           | Not available |

| TOXICITY (Algae)  | Results                         | Exposure time | Method        |
|---|---------------------------------|---------------|---------------|
| Ethoxylated alcohol   | NOT AVAILABLE                   |               |               |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Green algae 45 mg/L             | 96H           | Not available |
| Sodium carbonate  | Nitzschia sp. EC50 137-242 mg/l | 96H           | 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.

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| <b>SECTION 14 - TRANSPORTATION INFORMATION</b> |
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**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 |

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| <b>SECTION 15 - REGULATORY INFORMATION</b> |
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**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.

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

**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  
TLV  
WHMIS

Permissible Exposure Limit  
Threshold Limit Value  
Workplace Hazardous Materials Information System

End of the MSDS