

Material Safety Data Sheet

INO-GL66

1. Product and company identification

| | |
|-----------------------------|--|
| Product name | : INO-GL66 |
| Supplier | : Dissan Group 9280 Boulevard du Golf Anjou QC, H1J 3A1 Canada 514-789-6363 |
| Material uses | : Gel floor cleaner/restorer |
| Validation date | : 11/13/2014. |
| Print date | : 11/13/2014. |
| Responsible name | : Regulatory Affairs Department |
| In case of emergency | : 1-800-843-6174 |
| Product type | : Liquid |

2. Hazards identification

| | |
|--|--|
| Physical state | : Liquid |
| Odor | : Citrus |
| Emergency overview | : WARNING! COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. Combustible liquid. Severely irritating to eyes. Slightly irritating to the skin. Keep away from heat, sparks and flame. Do not get in eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Wash thoroughly after handling. |
| Routes of entry | : Not available |
| <u>Potential acute health effects</u> | |
| Inhalation | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |
| Skin | : Slightly irritating to the skin. |
| Eyes | : Severely irritating to eyes. Risk of serious damage to eyes. |
| <u>Potential chronic health effects</u> | |
| Chronic effects | : Contains material that may cause target organ damage, based on animal data. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |
| Target organs | : Contains material which may cause damage to the following organs: liver, cardiovascular system. |
| <u>Over-exposure signs/symptoms</u> | |
| Inhalation | : No specific data. |
| Ingestion | : No specific data. |

2. Hazards identification

- Skin** : Adverse symptoms may include the following:
irritation
redness
- Eyes** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
- See toxicological information (section 8)

3. Composition/information on ingredients

| Name | CAS number | % |
|---------------------------|------------|-----------|
| (R)-p-mentha-1,8-diene | 5989-27-5 | 20.25 |
| 1-propoxypropan-2-ol | 1569-01-3 | 1.4 |
| ethoxylated nonylphenol | 9016-45-9 | 0.9 - 1.5 |
| Tergitol NP-33 (nonionic) | 9016-45-9 | 1 |
| ethylene glycol | 107-21-1 | 0.1155 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5. Fire-fighting measures

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Special remarks on fire hazards** : Not available
- Special remarks on explosion hazards** : Not available

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

| <u>Occupational exposure limits</u> | | <u>TWA (8 hours)</u> | | | <u>STEL (15 mins)</u> | | | <u>Ceiling</u> | | | |
|-------------------------------------|------------------|----------------------|-------------------------|--------------|-----------------------|-------------------------|--------------|----------------|-------------------------|--------------|------------------|
| <u>Ingredient</u> | <u>List name</u> | <u>ppm</u> | <u>mg/m³</u> | <u>Other</u> | <u>ppm</u> | <u>mg/m³</u> | <u>Other</u> | <u>ppm</u> | <u>mg/m³</u> | <u>Other</u> | <u>Notations</u> |
| ethylene glycol | US ACGIH 2/2010 | - | - | - | - | - | - | - | 100 | - | [a] |
| | AB 4/2009 | - | - | - | - | - | - | - | 100 | - | [3] [b] |
| | BC 9/2010 | - | - | - | - | - | - | - | 100 | - | [a] |
| | | - | 10 | - | - | 20 | - | - | - | - | [c] |
| | ON 7/2010 | - | - | - | - | - | - | 50 | - | - | [d] |
| | QC 6/2008 | - | - | - | 50 | 127 | - | - | 100 | - | [b] |
| | | - | - | - | - | - | - | - | - | - | [e] |

[3]Skin sensitization

Form: [a]Aerosol [b]aerosol [c]Particulate [d]Vapour [e]vapour and mist

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : None normally required.

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Other protection : Not available

Personal protective equipment (Pictograms) : Not available

9. Physical and chemical properties

Physical state : Liquid

Flash point : Closed cup: 61°C (141.8°F)

Color : Milky White

Odor : Citrus

pH : 8.5 to 9.5

Boiling/condensation point : 100°C (212°F)

9. Physical and chemical properties

| | |
|-------------------------------|-----------------------------|
| Melting/freezing point | : 0°C (32°F) |
| Critical temperature | : Not available |
| Relative density | : Not available |
| Vapor pressure | : <4 kPa (<30 mm Hg) [20°C] |
| Vapor density | : <1 [Air = 1] |
| Evaporation rate | : Not applicable |
| Solubility | : Not available |

10. Stability and reactivity

| | |
|---|---|
| Chemical stability | : The product is stable. |
| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Materials to avoid | : Reactive or incompatible with the following materials: oxidizing materials |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |

11. Toxicological information

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-------------|---------|-------------|----------|
| (R)-p-mentha-1,8-diene | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 4400 mg/kg | - |
| 1-propoxypropan-2-ol | LD50 Dermal | Rabbit | 3550 mg/kg | - |
| | LD50 Oral | Rat | 2504 mg/kg | - |
| ethylene glycol | LD50 Oral | Rat | 4700 mg/kg | - |

Conclusion/Summary : Not available

Chronic toxicity

Not available

Conclusion/Summary : Not available

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---------------------------|--------------------------|------------|-------|----------|-------------|
| (R)-p-mentha-1,8-diene | Skin - Mild irritant | Rabbit | - | - | - |
| 1-propoxypropan-2-ol | Eyes - Moderate irritant | Rabbit | - | - | - |
| ethoxylated nonylphenol | Eyes - Severe irritant | Guinea pig | - | - | - |
| | Eyes - Severe irritant | Mouse | - | - | - |
| | Eyes - Severe irritant | Rabbit | - | - | - |
| | Skin - Mild irritant | Human | - | - | - |
| Tergitol NP-33 (nonionic) | Skin - Mild irritant | Rabbit | - | - | - |
| | Eyes - Severe irritant | Guinea pig | - | - | - |
| | Eyes - Severe irritant | Mouse | - | - | - |
| | Eyes - Severe irritant | Rabbit | - | - | - |
| | Skin - Mild irritant | Human | - | - | - |
| ethylene glycol | Skin - Mild irritant | Rabbit | - | - | - |
| | Eyes - Mild irritant | Rabbit | - | - | - |
| | Eyes - Moderate irritant | Rabbit | - | - | - |
| | Skin - Mild irritant | Rabbit | - | - | - |

Conclusion/Summary : Not available

Sensitizer

11. Toxicological information

Not available

Conclusion/Summary : Not available

Carcinogenicity

Not available

Conclusion/Summary : Not available

Classification

| Product/ingredient name | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|-------------------------|-------|------|-----|-------|-----|------|
| (R)-p-mentha-1,8-diene | - | 3 | - | - | - | - |

Mutagenicity

Not available

Conclusion/Summary : Not available

Teratogenicity

Not available

Conclusion/Summary : Not available

Reproductive toxicity

Not available

Conclusion/Summary : Not available

Synergistic products : Not available

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------|--|---|----------|
| (R)-p-mentha-1,8-diene | Acute EC50 421 ug/L Fresh water | Daphnia - Daphnia magna - <24 hours | 48 hours |
| | Acute EC50 688 ug/L Fresh water | Fish - Pimephales promelas - 34 days - 19.1 mm - 0.085 g | 96 hours |
| ethoxylated nonylphenol | Acute EC50 12 mg/L Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute LC50 1 to 2 ug/L Fresh water | Crustaceans - Thamnocephalus platyurus - Nauplii - 24 hours | 48 hours |
| | Acute LC50 4800 ug/L Fresh water | Daphnia - Daphnia pulex - Larvae - <=24 hours | 48 hours |
| Tergitol NP-33 (nonionic) | Acute LC50 1300 to 1800 ug/L Fresh water | Fish - Lepomis macrochirus - 1 g | 96 hours |
| | Acute EC50 12 mg/L Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute LC50 1 to 2 ug/L Fresh water | Crustaceans - Thamnocephalus platyurus - Nauplii - 24 hours | 48 hours |
| | Acute LC50 4800 ug/L Fresh water | Daphnia - Daphnia pulex - Larvae - <=24 hours | 48 hours |
| ethylene glycol | Acute LC50 1300 to 1800 ug/L Fresh water | Fish - Lepomis macrochirus - 1 g | 96 hours |
| | Acute LC50 >100000 ug/L Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |
| | Acute LC50 6900000 ug/L Fresh water | Daphnia - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 8050000 ug/L Fresh water | Fish - Pimephales promelas - <=7 days | 96 hours |

12. Ecological information

| | | | |
|--|--|---|----------|
| | Chronic NOEC 11610000 ug/L Fresh water | Daphnia - Ceriodaphnia dubia - <=24 hours | 48 hours |
| | Chronic NOEC 6090000 ug/L Fresh water | Fish - Pimephales promelas - <=7 days | 96 hours |

Conclusion/Summary : Not available

Persistence/degradability

Not available

Conclusion/Summary : Not available

Partition coefficient: n-octanol/water : Not available

Bioconcentration factor : Not available

Mobility : Not available

Toxicity of the products of biodegradation : Not available

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

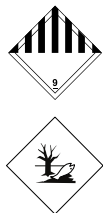
Waste stream : Not available

RCRA classification : Not available

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------------|---------------|---|---------------|-----|---|--|
| DOT Classification | Not regulated | - | - | - | | -Review if shipped in package over 119 gallons |
| TDG Classification | Not available | Not available | Not available | - | | - |
| Mexico Classification | Not available | Not available | Not available | - | | - |
| ADR/RID Class | UN3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ethoxylated nonylphenol) | 9 | III |  | Tunnel code (E) |
| | | | | | | |

14. Transport information

| | | | | | | |
|-----------------------|--------|---|---|-----|--|---|
| IMDG Class | UN3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ethoxylated nonylphenol). Marine pollutant ((R)-p-mentha-1,8-diene, ethoxylated nonylphenol) | 9 | III | | - |
| IATA-DGR Class | UN3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ethoxylated nonylphenol) | 9 | III | | - |

PG* : Packing group

15. Regulatory information

United States inventory (TSCA 8b) : Not determined.

WHMIS (Canada) : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI : The following components are listed: Nonylphenol and its ethoxylates; D-Limonene; Nonylphenol and its ethoxylates

CEPA Toxic substances : The following components are listed: Nonylphenol and its ethoxylates; Nonylphenol and its ethoxylates

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

EU regulations

Hazard symbol or symbols :



Risk phrases : R38- Irritating to skin.
R43- May cause sensitization by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S2- Keep out of the reach of children.
S24- Avoid contact with skin.
S29- Do not empty into drains.
S37- Wear suitable gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

International regulations

15. Regulatory information

- International lists** : Australia inventory (AICS): Not determined.
 China inventory (IECSC): Not determined.
 Japan inventory: Not determined.
 Korea inventory: Not determined.
 New Zealand Inventory of Chemicals (NZIoC): Not determined.
 Philippines inventory (PICCS): Not determined.
- Chemical Weapons Convention List Schedule I Chemicals** : Not listed
- Chemical Weapons Convention List Schedule II Chemicals** : Not listed
- Chemical Weapons Convention List Schedule III Chemicals** : Not listed

16. Other information

- Label requirements** : COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

- Hazardous Material Information System (U.S.A.)** :

| | | |
|------------------|---|---|
| Health | * | 1 |
| Flammability | | 2 |
| Physical hazards | | 0 |
| | | |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

- References** : Not available
- Other special considerations** : Not available
- Date of printing** : 11/13/2014.
- Date of issue** : 11/13/2014.
- Date of previous issue** : 11/18/2011.
- Version** : 1.01

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.