

MATERIAL SAFETY DATA SHEET

1. Identification

Product

Name: POWER DEGREASER (INO-Bi4)

Use: Ecological degreaser

Code: IS-132-04

Manufacturer

Innu-Science Canada Inc.

1777, boul. Nobel, Local F

Ste-Julie, Québec J3E 1Z6 CA

Phone number: 450-922-4666

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HMIS/NFPA



WHMIS



Emergency phone:

CANUTEC Canada 613-996-6666

CHEMTREC USA 800-424-9300

Québec Poison Control Center: 1 800-463-5060

2. Hazards identification: CAUTIONS: This product may cause eyes irritation.

Potential short term health effects

Routes of exposure

Eyes	Skin	Inhalation	Ingestion
May cause slight irritation.	Pratically non-irritating.	Non-irritating.	May cause gastro-intestinal disturbance

Target organs Eyes. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Environmental effects The components of this product are not identified as having potential environmental concerns.

3. Composition / Information on Ingredients

Actives ingredients	CAS	Concentration % (p/p)	Classification
Alcohol Ethoxylate C12-C15	68551-13-3	1 - 5	D2B
Dodecylbenzene sulfonic acid, sodium salt	25155-30-0	1 - 5	D1A, D2B

4. First aids

Eyes contact: Remove contact lenses. Immediately flush eyes with water for 15 minutes.

Skin contact: Flush with water and wash all exposed contaminated clothing before reuse.

Inhalation: Move victim to fresh air if discomfort occurs.

Ingestion: Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Give several glasses of water if victim is conscious. Obtain medical attention.

General advice : If you feel unwell, seek medical advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin.

5. Fire Fighting Measures

- Flammable properties:** Not flammable by WHMIS/OSHA criteria.
- Extinguishing media :** Dry chemical. Alcohol foam. Carbon dioxide.
- Protection of firefighters:** Firefighters should wear full protective clothing including self contained breathing apparatus.
- Hazardous combustion products :**
May include and are not limited to: Oxides of carbon.

6. Accidental Release Measures

- Personal precautions:** Delineate the spill area and keep people away from and upwind of spill/leak. Ensure a good ventilation. Wear appropriate protective equipment before remove the spill.
- Environmental precautions:** Avoid contamination of soils, streams, lakes ponds or public water. Treat the spill according to municipal standards and/or government laws.
- Methods for cleaning up:** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

- Handling:** Use only with adequate ventilation. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Avoid contact with skin and clothing. Avoid contact with eyes. Avoid breathing vapors or mists of this product. Keep container tightly closed. Wash thoroughly after handling.
- Storage:** Keep out of reach of children. Store in a closed container away from incompatible materials. Store at room temperature.

8. Exposure Controls / Personal Protection

Exposure limits:

Nom	CAS	ACGIH-TVL	OSHA-PEL
Alcohol Ethoxylate C12-C15	68551-13-3	Not established	Not established
Dodecylbenzene sulfonic acid, sodium salt	68439-57-6	Not established	Not established

- Engineering controls:** General ventilation normally adequate.

Personal protective equipment :

Eye / face protection :	Wear safety glasses with side shields.
Hand/skin/body:	Long clothing and other equipment deemed necessary by the employer.
Respiratory protection:	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
hygiene considerations :	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance :	Liquid	pH:	7,40- 7,70
Color :	Yellow	Flash point	n.d.
Specific gravity :	1,015-1,025 g/mL	Solubility:	Easily soluble in cold water.
Physical state :	Aqueous solution	Viscosity :	10,0 - 15,0 cP
Odor :	Mint		

10. Stability and Reactivity

Reactivity :	Strong acids or bases may inactivate bacterial mixture.
Hazardous reactions:	None.
Chemical stability :	Stable under recommended storage conditions.
Conditions to avoid:	Do not mix with other chemicals.
Incompatible materials :	Acids. Oxidizers.
Hazardous decomposition products :	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Toxic analysis :

Species:	Rat
Test:	Oral

Nom	Cas	DL50 mg/Kg	CL50 mg/Kg
Alcohol Ethoxylate C12-C15	68551-13-3	1350	-
Dodecylbenzene sulfonic acid, sodium salt	25155-30-0	438	-

Ecotoxicity analysis :

Nom	Cas	LC50		CL50	
		mg/L	fishs	mg/L	crustacea
Alcohol Ethoxylate C12-C15	68551-13-3	-	-	-	-
Dodecylbenzene sulfonic acid, sodium salt	25155-30-0	-	-	-	-

Effects of acute exposure :

Eye:	May cause slight irritation.
Skin :	Pratically non-irritating.
Inhalation :	Non-irritating.
Ingestions :	Can cause minor gastro-intestinal disturbance.
Sensibilization :	This product has no sensitizing properties.
Chronic effects :	Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

Persistence/degradability :	Not available.
Mobility in environmental media :	Readily biodegradable according to OECD criteria (series 301).
Aquatic toxicity :	Not available.

13. Disposal Considerations

Disposal instructions :	Dispose in accordance with all applicable regulations.
Waste from residues :	Not available.
Contaminated packaging :	Not available.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated

15. Regulatory Information

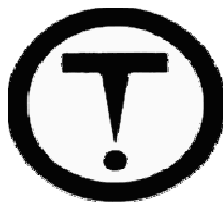
Canadian federal regulations :

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.

This product is controlled by the WHMIS.

WHMIS classification: D2B

WHMIS labeling :



HAZARDOUS PRODUCT ACT SOR/88-66 P.C. 1987-2721 (Current to May 17, 2011) :

Regulated

US Federal regulations : This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Occupational Safety and Health Administration (OSHA) :

29 CFR 1910.1200 hazardous chemicals Yes

CERCLA (Superfund) reportable quantity: None

Hazard categories: Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance: Non

Section 311 hazardous chemical: Yes

Clean Air Act (CAA) : Not available

Clean Water Act (CWA) : Not available

State regulations : This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Inventory name

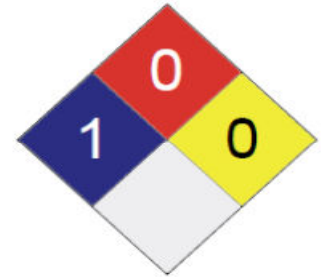
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
USA & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	*	1
Flammability		0
Physical Hazard		0
Personal Protection		X



Disclaimer:

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information : For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.