




**INO-BIO 1**

**SECTION 1 - IDENTIFICATION**

**Product identification :** INO-BIO 1  
**Product code :** DISSAN\_60717  
**Product use / Description :** BIOTECHNOLOGICAL ALL PURPOSE CLEANER  
**Chemical name :** Mixture  
**Chemical group :** Mixture  
**Supplier identifier :** INO SOLUTIONS  
**9280 Boul Du Golf**  
**Anjou, Quebec, H1J 3A1**  
**1-888-466-7658**  
**Manufactured for:** INO SOLUTIONS  
**9280 Boul Du Golf**  
**Anjou, Quebec, H1J 3A1**  
**1-888-466-7658**  
**Emergency phone :** CANUTEC 613-996-6666

**SECTION 2 - HAZARD IDENTIFICATION**

<b>Classification</b>	Skin sensitizer - Category 1B Skin irritation - Category 3 Yes irritation - Category 2B	
<b>Warning statement</b>	<b>WARNING</b>	
<b>Hazard statement</b>	H317 May cause allergic skin reaction. H316 May cause mild skin irritation. H320 Causes eye irritation.	
<b>Precautionary advice - Prevention</b>	P103 Read label before use.	
<b>Precautionary advice - Response</b>	P305+P351+P338 IN CASE OF EYE CONTACT : Rinse cautiously with water for several minutes. remove the contact lenses if the victim is wearing it and if they can be easily removed. Continue to rinse at least 15 minutes and get medical attention. P337+P313+P333 If eye irritation or irritation /skin rash persists, seek medical advice.	
<b>Precautionary Statement - Disposal</b>	P501 Dispose of contents / container in accordance with municipal, provincial and federal regulations.	

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

Hazardous ingredients	CAS No.	% (weight)
Alkyl alcohol sulfuric acid sodium salt (C10-C16)	68585-47-7	1 - 3
Viable bacterial culture	N/A	0.5 - 1

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

**SECTION 4 - FIRST AID MEASURE**

**Inhalation :**  
IN INHALED: Move the person to fresh air at once.

**Skin contact :**  
IN CAS OF SKIN CONTACT: Remove contaminated clothing immediately. Rinse with water / shower. In case of irritation or rash: seek medical advice. Remove contaminated clothing and wash before reuse.

**Eye contact:**  
IN CASE OF EYE CONTACT: Rinse carefully with water for several minutes. Remove contact lenses if the victim door and if they can be easily removed. Continue to rinse. If eye irritation persists, seek medical advice. DO NOT neutralize with acid.

**Ingestion:**  
NEVER give anything by mouth if the victim faints quickly or if unconscious or convulsive. Rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Ask the victim to swallow two glasses of water. If vomiting occurs naturally, tip the victim forward to reduce the risk of aspiration. Continue to drink water. Get immediate medical attention.

**Note to Physician:**  
Treat according to symptoms.



**INO-BIO 1**

**SECTION 5 - FIREFIGHTING MEASURES**

**Suitable extinguishing media :** In case of fire: Vaporized water, chemical foam, dry chemical powder, CO2 according to the conditions of the fire.

**Unsuitable extinguishing media :** A direct water jet can cause foaming.

**Hazardous combustion products :** Carbon oxides, acrid smoke.

**Protective gear :** Firefighting equipment including a NIOSH approved self-contained breathing apparatus.

**Special precautions:** Retain runoff. Avoid infiltration into sewers or waterways.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal protection :**  
Wear plastic or rubber gloves if large amounts of bulk are handled. (See Section 8)

**Containment and clean up :**  
Ventilate the spill area. Stop the flow if this can be done safely. Contain and absorb with inert absorbent material for later disposal (see section 13). Prevent material from entering watercourses or sewers. Contain runoff where applicable. Notify the appropriate authorities if necessary.

**Environmental precautions :**  
Dispose in accordance with municipal, provincial and federal regulations. The organic matter contained in this product is biodegradable.

**SECTION 7 - HANDLING AND STORAGE**

**Safe handling procedures :**  
Containers must be identified. Handle in a well ventilated area. Avoid contact with skin and clothing. Keep container tightly closed. Store at room temperature and do not exceed 35 ° C. Observe good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while handling this product or in the vicinity. Wash contaminated clothing before reuse.

**Storage requirements :**  
Store in a well-ventilated area. Store away from incompatible products. Keep containers closed.

**Incompatible materials :**  
Strong acids, strong alkalis.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure limit :**

Ingredients	ACGIH PEL		NIOSH TLV	
	TLV	STEL	TWA	STEL
Alkyl alcohol sulfuric acid sodium salt (C10-C16)	Not available	Not available	Not available	Not available

**Engineering measures :**  
Adequate ventilation is recommended.

**Respiratory protection :**  
Not required if ventilation is adequate.

**Protective clothing and equipment :**  
Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.

**General hygiene recommendations :**  
Avoid the production of high concentrations of dusts, mists or vapors. Avoid all contact with skin and eyes. Avoid breathing dusts, vapors or mists. Never eat, drink or smoke near workstations. Good hygiene is recommended after using this product. Clean clothes before reuse.



**INO-BIO 1**

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance :</b>	Green translucent liquid
<b>Odour :</b>	Mint.
<b>Odour threshold :</b>	Not available.
<b>pH :</b>	6.0 - 7.0.
<b>Melting point :</b>	Not applicable.
<b>Initial boiling point :</b>	Not applicable.
<b>Flash point :</b>	> 93°C
<b>Evaporation rate (butyl acetate = 1) :</b>	>1.0.
<b>inflammability :</b>	Not applicable.
<b>LIL :</b>	Not applicable.
<b>UIL :</b>	Not applicable.
<b>Vapor pressure :</b>	Not available.
<b>Density of vapor (air=1) :</b>	Not available.
<b>Relative density :</b>	1.02 - 1.04 g/ml.
<b>Solubility :</b>	Soluble
<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>	< 200cPs (brookfield RV #4 at 20 rpm).

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Stability and reactivity :</b>	Stable under recommended and prescribed handling and storage conditions.
<b>Polymerization :</b>	No.
<b>Condition to avoid :</b>	Contact with incompatible materials .
<b>Materials to Avoid :</b>	Strong oxidizers, acids .
<b>Hazardous decomposition products :</b>	Carbon oxide.

**SECTION 11 - TOXICOLOGICAL DATA**

<b>Toxicological data:</b>				
<b>Hazardous ingredients:</b>	<b>No. CAS</b>	<b>% (weight)</b>	<b>DL<sub>50</sub> ( Species pathway)</b>	<b>CL<sub>50</sub> ( Species)</b>
Alkyl alcohol sulfuric acid sodium salt (C10-C16)	68585-47-7	1 - 3.	>1200 mg/kg, oral, rat >2000 mg/kg, dermal (rabbit)	Not available.
<b>Route of administration Inhalation, cutaneous, ocular, ingestion.</b>				
<b>Effects of short-term (acute) exposure:</b>				
<b>Inhalation :</b>	Not applicable			
<b>Skin :</b>	May cause a rash and / or dry skin.			
<b>Eyes :</b>	May cause eye irritation.			
<b>Ingestion :</b>	May cause gastric discomfort if ingested in large quantities.			
<b>Effects of long-term (chronic) exposure:</b>				
<b>Inhalation :</b>	Respiratory irritation.			
<b>Skin :</b>	Dermatitis.			
<b>Eyes :</b>	Eye redness .			
<b>Ingestion :</b>	Not available .			
<b>Carcinogenicity (CIRC) :</b>	Not carcinogenic according to IARC.			
<b>Teratogenicity :</b>	Non teratogenic .			
<b>Mutagenicity :</b>	Non-mutagenic .			
<b>Target organ :</b>	Not available .			
<b>Condition aggravated by the exposure :</b>	Not available .			



**INO-BIO 1**

**SECTION 12 - ECOLOGICAL DATA**

Hazardous ingredients	No. CAS	%	Value	Species
Alkyl alcohol sulfuric acid sodium salt (C10-C16)	68585-47-7	1 - 3	EC50, 1.18 - 2.2mg/l	Crustacean

**Persistence and biodegradation:** The product is readily biodegradable according to OECD-301.  
**Bioaccumulation potential:** Not bioaccumulative.  
**Mobility in soil:** Not available  
**Other adverse effects:** Not available.

**SECTION 13 - DATA ON PRODUCT DISPOSAL**

<b>Storage conditions and waste handling:</b>	Store materials for disposal and contaminated packaging as indicated in Section 7 Handling and storage..
<b>Disposal methods:</b>	Disposal of all waste must be in accordance with municipal by-laws, provincial and federal.

**SECTION 14 - TRANSPORT INFORMATION**

UN Number	Proper shipping name	Class	Packaging group	Placard
Not regulated for transport.				

**SECTION 15 - REGULATORY INFORMATION**

<b>Information on Canadian law of environmental protection (CEPA):</b>	Product components are listed on the Domestic Substances List (DSL), in the Non-Domestic Substance List (NDSL) or they are exempt.
<b>Other:</b>	The components of the product are listed on the TSCA list or are exempt.

**SECTION 16 - OTHER INFORMATION**

<b>Prepared by :</b>	Solutions Enbiotech Plus 60, Beauvais street, Delson, Qc, J5B-1W8
<b>Phone number :</b>	(450) 638-3344
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<b>Abbreviations:</b>	
ACGIH	American conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CL / LC	Concentration létal / Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
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
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

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