

# SAFETY DATA SHEET



In accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022

## INO BIO 12 AT USE DILUTION

### SECTION 1: IDENTIFICATION

<b>Product identifier</b>	<b>INO BIO 12 AT USE DILUTION</b>
<b>Other Means of Identification</b>	16448 / 17181
<b>Recommended Use</b>	Calcium Remover Cleaner
<b>Restrictions on Use</b>	Not available
<b>Initial Supplier Identifier</b>	
<b>Name</b>	INO SOLUTIONS
<b>Address</b>	9280 Boul Du Golf Anjou, Québec, H1J 3A1
<b>Telephone</b>	1-888-466-7658
<b>Contact email</b>	<a href="http://www.inosolutions.net">www.inosolutions.net</a>
<b>Emergency telephone number</b>	Quebec Centre antipoison (24 h service) Quebec: (418) 656-8090 - Other regions: 1 800 463-5060

### SECTION 2: HAZARDS IDENTIFICATION

#### Product classification

**GHS Classification in accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022**

This product, at use dilution, is not classified as hazardous under the Hazardous Products Regulations (HPR), as amended on December 15, 2022.

#### GHS label elements

<b>Symbol(s)</b>	None
<b>Signal word</b>	None
<b>Hazards</b>	None
<b>Precautionary statements</b>	
<b>Prevention</b>	None
<b>Response</b>	None
<b>Storage</b>	None
<b>Disposal</b>	None
<b>Other hazards</b>	None

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	(%) (w/w)	Common name / Synonyms	Other identifiers
Cocamidopropyl Betaine	61789-40-0	< 1	-	-

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In accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022

**Chemical nature:** Aqueous cleaning product.

**Note:** Concentration range provided to protect proprietary formulation details.

## SECTION 4: FIRST-AID MEASURES

**Inhalation:** Based on available data, no irritation or harmful effects have been observed under normal conditions of use (at the recommended use dilution).

**Skin contact:** Wash thoroughly with soap and water. Consult a physician if skin irritation occurs.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation occurs.

**Ingestion:** Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.

### Most Important Symptoms and Effects, Acute and Delayed

**Symptoms:** No known harmful effects or irritation under normal conditions of exposure.

**Effects:** No data available suggesting additional acute or delayed effects under these conditions.

**Immediate Medical Attention and Special Treatment:** Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** This product is neither flammable nor combustible. In case of fire involving this product, use extinguishing media suitable for the surrounding fire conditions.

**Unsuitable extinguishing media:** Data not available.

**Special hazards arising from the product:** During combustion, the product may release irritating or toxic fumes or vapours (e.g. carbon oxides, irritating vapours).

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** No special protective equipment is required under normal conditions of use. Wearing gloves or safety goggles may be considered during prolonged handling or in case of potential direct contact.

**Methods for Containment and Cleaning Up:** Clean contaminated areas immediately. Contain and absorb with inert material. Wash the area thoroughly with plenty of water. Avoid release to the environment.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes. Wash hands thoroughly after use.

**Conditions for safe storage:** Store in a cool, dry, and well-ventilated area away from incompatible materials.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Occupational exposure limit values: Not applicable

**Appropriate engineering controls:** Not applicable

### Individual Protection Measures

**Eye/face protection :** Wearing safety glasses is generally not required under normal conditions of use.

**Skin protection:** Wearing gloves is generally not required under normal conditions of use. Wash hands thoroughly after handling.

**Respiratory protection:** No respiratory protection is required under normal conditions of use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
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In accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022

<b>Colour</b>	Colourless
<b>Odour</b>	Herbal
<b>Melting point and freezing point</b>	0°C
<b>Boiling point or initial boiling point and boiling range</b>	100°C
<b>Flammability</b>	Non-flammable
<b>Upper and lower flammability or explosive limit</b>	Not applicable
<b>Flash point</b>	> 93°C
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Data not available
<b>pH</b>	7.0 - 8.0
<b>Kinematic viscosity</b>	< 10 cSt
<b>Solubility</b>	Soluble in water
<b>Partition coefficient, n-octanol / water (log K<sub>ow</sub>)</b>	Data not available
<b>Vapour pressure</b>	Data not available
<b>Density and relative density</b>	1.00 – 1.01
<b>Relative vapour density</b>	Data not available
<b>Particle characteristics</b>	Data not available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No dangerous reactivity known.

**Chemical stability:** Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:** No hazardous reactions known.

**Conditions to avoid:** Avoid heat and direct sunlight to preserve product quality.

**Incompatible materials:** No known incompatible materials.

**Hazardous decomposition products:** Carbon oxides produced during combustion.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Likely routes of exposure:**

Inhalation  Skin contact  Eye contact  Ingestion

**Acute toxicity:** Not classified (criteria for classification not met).

LD50 (oral, rat) > 5000 mg/kg (calculated data)

LD50 (dermal, rat) > 5000 mg/kg (calculated data)

**Skin corrosion/irritation:** Not classified (criteria for classification not met).

**Serious eye damage/eye irritation:** Not classified (criteria for classification not met).

**STOT (Specific Target Organ Toxicity) - Single Exposure:** Not classified (criteria for classification not met).

**STOT (Specific Target Organ Toxicity) - Repeated Exposure:** Not classified (criteria for classification not met).

**Respiratory and/or skin sensitization:** Not classified (criteria for classification not met).

**Carcinogenicity:** No ingredient listed by IARC, ACGIH, or OSHA. Not classified (criteria for classification not met).

**Reproductive toxicity:** Not classified (criteria for classification not met).

**Germ cell mutagenicity:** Not classified (criteria for classification not met).

**Interactive effects:** No known or expected interactive effects between components.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Acute toxicity, LC<sub>50</sub> (calculated): > 1000 mg/L

**Persistence and degradability:** Ingredients are readily biodegradable according to OECD Test Guideline 301 methods.

**Bioaccumulative potential:** Data not available.

**Mobility in soil:** Data not available.

**Other adverse effects:** Data not available.

This product does not present a significant risk to the environment under normal conditions of use.

# SAFETY DATA SHEET



In accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022

## SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal methods:** Dispose of contents and container in accordance with local and regional regulations. Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The product is not regulated for transport by ground (TDG), air (IATA), or sea (IMDG).

## SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations:** This Safety Data Sheet has been prepared to meet the requirements of the Hazardous Products Regulations (HPR) under the Hazardous Products Act (HPA), as amended on December 15, 2022. It does not address any regulatory requirements outside of Canada.

## SECTION 16: OTHER INFORMATION

**Created by:** InnuScience Group Inc.

**Telephone:** +1 450-922-4666

**Date of issue:** May 11<sup>th</sup> 2018

**Revision date:** November 21<sup>st</sup> 2025

**Version:** 5

This version replaces all previous editions.

Disclaimer:

The information contained in this Safety Data Sheet is based on the current state of our knowledge and applies to the product as delivered. It does not constitute a guarantee of specific properties. The user is responsible for ensuring that their practices comply with applicable regulations.

# SAFETY DATA SHEET

In accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022

## INO BIO 12 CONCENTRATE

### SECTION 1: IDENTIFICATION

<b>Product identifier</b>	<b>INO BIO 12 CONCENTRATE</b>
<b>Other Means of Identification</b>	16448 / 17181
<b>Recommended Use</b>	Calcium Remover Cleaner
<b>Restrictions on Use</b>	Not available
<b>Initial Supplier Identifier</b>	
<b>Name</b>	INO SOLUTIONS
<b>Address</b>	9280 Boul Du Golf Anjou, Québec, H1J 3A1
<b>Telephone</b>	1-888-466-7658
<b>Contact email</b>	<a href="http://www.inosolutions.net">www.inosolutions.net</a>
<b>Emergency telephone number</b>	Quebec Centre antipoison (24 h service) Quebec: (418) 656-8090 - Other regions: 1 800 463-5060


### SECTION 2: HAZARDS IDENTIFICATION

#### Product classification

**GHS Classification in accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022**

Serious eye damage/eye irritation Category 2A

#### GHS label elements

<b>Symbol(s)</b>	
<b>Signal word</b>	<b>WARNING</b>
<b>Hazards</b>	Causes serious eye irritation.
<b>Precautionary statements</b>	
<b>Prevention</b>	Wear eye protection. Wash hands thoroughly after handling.
<b>Response</b>	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 attention.
<b>Storage</b>	None
<b>Disposal</b>	None
<b>Other hazards</b>	None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	(%) (w/w)	Common name / Synonyms	Other identifiers
Cocamidopropyl Betaine	61789-40-0	1 - 3	-	-

**Chemical nature:** Aqueous cleaning product.

**Note:** Concentration range provided to protect proprietary formulation details.

## SECTION 4: FIRST-AID MEASURES

**Inhalation:** Based on available data, no irritation or harmful effects have been observed under normal conditions of use. If you feel unwell, move the person to fresh air and consult a physician if symptoms persist.

**Skin contact:** Wash thoroughly with soap and water. Consult a physician if skin irritation occurs.

**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 attention.

**Ingestion:** Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.

**Most Important Symptoms and Effects, Acute and Delayed**

**Symptoms:** Redness, pain, tearing, or stinging sensation of the eyes after contact. May cause burning sensation and marked irritation. Redness or slight tingling of the skin may occur after prolonged contact.

**Effects:** Eye irritation symptoms are generally reversible. No additional acute or delayed effects are expected under normal conditions of exposure.

**Immediate Medical Attention and Special Treatment:** Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** This product is neither flammable nor combustible. In case of fire involving this product, use extinguishing media suitable for the surrounding fire conditions.

**Unsuitable extinguishing media:** Data not available.

**Special hazards arising from the product:** During combustion, the product may release irritating or toxic fumes or vapours (e.g. carbon oxides, irritating vapours).

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Wear appropriate personal protective equipment for cleaning (protective gloves and safety goggles).

**Methods for Containment and Cleaning Up:** Clean contaminated areas immediately. Contain and absorb with inert material. Wash the area thoroughly with plenty of water. Avoid release to the environment.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes. Wear appropriate eye protection. Wash hands thoroughly after handling.

**Conditions for safe storage:** Store in a cool, dry, and well-ventilated area away from incompatible materials.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Occupational exposure limit values: Not applicable

**Appropriate engineering controls:** Not applicable

# SAFETY DATA SHEET

In accordance with the Hazardous Products Regulations (HPR), as amended on December 15, 2022

## Individual Protection Measures



**Eye/face protection:** Wear safety goggles compliant with CSA standards.

**Skin protection:** Gloves are generally not required under normal conditions of use. Wash hands thoroughly after handling.

**Respiratory protection:** No respiratory protection is required under normal conditions of use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Colourless
Odour	Herbal
Melting point and freezing point	0°C
Boiling point or initial boiling point and boiling range	100°C
Flammability	Non-flammable
Upper and lower flammability or explosive limit	Not applicable
Flash point	> 93°C
Auto-ignition temperature	Not applicable
Decomposition temperature	Data not available
pH	7.4 - 7.8
Kinematic viscosity	< 10 cSt
Solubility	Soluble in water
Partition coefficient, n-octanol / water (log <i>k</i> <sub>ow</sub> )	Data not available
Vapour pressure	Data not available
Density and relative density	1.05 - 1.10
Relative vapour density	Data not available
Particle characteristics	Data not available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No dangerous reactivity known.

**Chemical stability:** Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:** No hazardous reactions known.

**Conditions to avoid:** Avoid heat and direct sunlight to preserve product quality.

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### Likely routes of exposure:

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**Acute toxicity:** Not classified (criteria for classification not met).

LD50 (oral, rat) > 5000 mg/kg (calculated data)

LD50 (dermal, rat) > 5000 mg/kg (calculated data)

**Skin corrosion/irritation:** Not classified (criteria for classification not met).

**Serious eye damage/eye irritation:** The product causes serious eye irritation.

**STOT (Specific Target Organ Toxicity) - Single Exposure:** Not classified (criteria for classification not met).

**STOT (Specific Target Organ Toxicity) - Repeated Exposure:** Not classified (criteria for classification not met).

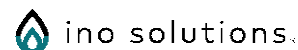
**Respiratory and/or skin sensitization:** Not classified (criteria for classification not met).

**Carcinogenicity:** No ingredient listed by IARC, ACGIH, or OSHA. Not classified (criteria for classification not met).

**Reproductive toxicity:** Not classified (criteria for classification not met).

**Germ cell mutagenicity:** Not classified (criteria for classification not met).

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**Interactive effects:** No known or expected interactive effects between components.

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**Ecotoxicity:** Acute toxicity, LC50 (calculated): > 100 mg/L

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**Bioaccumulative potential:** Data not available.

**Mobility in soil:** Data not available.

**Other adverse effects:** Data not available.

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