

1 Identification

GHS Product Identifier

Product name: Nitro B

Product form: Liquid mixture

Recommended use of the chemical and restriction on use

Recommended use: Liquid fertilizer

Supplier's details

Axter Agroscience Inc.
895 chemin Benoit
Mont St-Hilaire, Québec
Canada
J3H 0L7

Contact number: 450-464-5755

Opening hours: 7h - 17h from Monday to Friday

Emergency phone number

CANUTEC: 1-888-226-8832

**Canadian Association of
Poison Control Centres :** www.capcc.ca

2 Hazard(s) identification

Classification of the substance or mixture

Classification: GHS-CA

GHS label elements

Danger



May damage the unborn child.

May damage fertility.

Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Dispose of contents/container to meet proper regulations or use Clean Farms Empty Container Program

Other hazards which do not result in classification

No additional information available

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Boric acid	10043-35-3		55 - 60	
Monoethanolamine	141-43-5		18 - 22	

4 First-aid measures

Description of necessary first-aid measures

Not expected to present a significant hazard under anticipated conditions of normal use.

FOLLOWING INHALATION	Move exposed person to fresh air and facilitate breathing If you feel unwell, seek medical advice.
FOLLOWING SKIN EXPOSURE	Wash skin with plenty of water and soap. Rinse thoroughly. Get medical advice/attention immediately.
FOLLOWING EYE EXPOSURE	Rinse immediately with plenty of water for at least 15 minutes occasionally lifting eyelids Seek immediate medical attention
FOLLOWING INGESTION	Rinse mouth. Do NOT induce vomiting. Seek immediate medical advice.

Most important symptoms/effects, acute and delayed

Symptoms

The symptoms are flu-like: discomfort, joint pain, fever, cough and shortness of breath.
We can observe headaches, nausea, vomiting and dizziness

Effects (acute or delayed):

Can cause depression of the central nervous system.
Following repeated exposure, damage to the pancreas may occur.
Following repeated exposure, liver and kidney damage may occur.
If ingested in large quantities may cause gastro-intestinal disorders.
Studies suggest the possibility of an increase in congenital malformations.

Indication of immediate medical attention and special treatment needed, if necessary

NOTE TO PHYSICIAN: Treat symptomatically

5 Fire-fighting measures

Suitable extinguishing media

Use extinguishing agent suitable for the type of surrounding fire;

Avoid excessive water to minimize runoff into the environment.

Prevent and/or control firefighter water from entering the environment.

Specific hazards arising from the chemical

Explosion Hazard: No direct explosion hazard

Special protective actions for fire-fighters

Use water spray or fog to cool exposed containers.

Do not enter fire area without proper protective equipment, including full face, positive pressure respiratory protection.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Do not take any actions without proper training or information
Wear personal protective equipment.
Shut off all ignition sources. No flares, smoking or flames in hazard area
Avoid breathing vapors or mist

Protective Equipment: For further information refer to section 8: "Exposure controls/personal protection".
Ventilate spillage area.

Prevention Measures: Prevent entry to sewers and public waters.

Environmental precautions

Do not let product enter the environment.

Stop leak if without risk.

Methods and materials for containment and cleaning up

Methods for cleaning up:
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Collect all waste in suitable and labelled containers
Dispose according to local legislation.
Do not flush into surface water or sewer system.
Store away from other materials.

7 Handling and storage

Precautions for safe handling

Precautions for safe handling: Avoid all unnecessary exposure.
Workers should wash hands and face before eating, drinking and smoking.
Wear P.P.E. when conditions increase the risk of exposure
Avoid contact with eyes, skin and clothing.
Avoid breathing vapor or mist.
Use only with adequate ventilation.
Keep in the original container

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
Do not eat, drink or smoke when using this product.
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep in original containers.
Store in a well-ventilated place.
Keep cool.
Keep container closed and sealed until ready for use.

Incompatible materials: Strong oxidizing agents.

Storage temperature : > 0 °C

Storage method: Skid must not be stacked more than two high

8 Exposure controls/personal protection

Control parameters

No	CAS	Common Name	IDHL mg / m ³	TWA mg / m ³	STEL mg / m ³	CEIL mg / m ³
1	10043-35-3	Boric Acid	N.A.	N.A.	N.A.	N.A.
2	141-43-5	Ethanolamine	75	7.5	15	N.A.

Appropriate engineering controls

None under normal use.

VENTILATION:

If required, provide local exhaust ventilation system to meet published exposure limits.

Individual protection measures

EYE PROTECTION:

Employee should wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.

EMERGENCY EYE WASH:

Where there is a possibility that eyes may be exposed to this substance; the employer should provide an eye wash fountain within the immediate work area for emergency use.

CLOTHING:

Employee should wear appropriate protective clothing and equipment to prevent repeated or prolonged skin contact with this substance.

GLOVES:

Employee should wear appropriate protective gloves to prevent contact with this substance.

RESPIRATOR:

No special respiratory protection equipment is recommended under normal conditions of use. If circumstances warrant protection, an approved organic vapour respirator can be worn to reduce exposure to product vapours.

9 Physical and chemical properties

Physical and chemical properties

Physical state :	Liquid
Appearance :	Clear.
Colour :	Transparent
Odour :	No significant odour
Odour threshold :	No data available
pH :	7.9
Relative evaporation rate (ether=1):	< 0.050
Melting point:	No data available
Freezing point:	< 0 °C
Boiling point:	> 100 °C
Flash point:	Non flammable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	< 17.635 mm Hg @ 20 C
Vapour pressure at 50 °C:	No data available
Vapour density:	< 1
Density :	1.34 kg/l
Solubility:	Water: Soluble

10 Stability and reactivity

Reactivity

As such, not reactive under normal storage and handling conditions.

Chemical stability

Stable under normal storage, handling and mixing conditions

Possibility of hazardous reactions

None known under normal conditions of use

Conditions to avoid

Protect from freezing

Incompatible materials

None known

Hazardous decomposition products

Carbon monoxide and dioxide. Nitrogen oxides.

11 Toxicological information

Toxicological (health) effects

No	CAS	Common name	LD oral	LD skin	LD skin	LC gases	LC vapours	LC dust-mist
1	10043-35-3	Boric acid	2660	N.A.	> 2000	N. Applicable	N. Applicable	> 5
2	141-43-5	Ethanolamine	1720	1018	1018	N. Applicable	11	> 1.95

Information on the likely routes of exposure

Product is absorbed mainly by the digestive tract

Symptoms related to the physical, chemical and toxicological characteristics

The symptoms are flu-like: discomfort, joint pain, fever, cough and shortness of breath. We can observe headaches, nausea, vomiting and dizziness.

Delayed and immediate effects and also chronic effects from short and long term exposure

Can cause depression of the central nervous system.

Following repeated exposure, damage to the pancreas may occur.

Following repeated exposure, liver and kidney damage may occur.

May cause hair loss.

If ingested in large quantities may cause gastro-intestinal disorders.

Studies suggest the possibility of an increase in congenital malformations.

12 Ecological information

Toxicity

This mixture and its product of decomposition are not dangerous in normal conditions of use.

Persistence and degradability

In agriculture, the use of this mixture in normal conditions is non persistent.

Bioaccumulative potential

In agriculture, the use of this mixture in normal conditions is non cumulative.

Mobility in soil

No specific data available for this mixture but agronomic knowledge confirms that:
the nitrogen (expressed as N) component of this mixture can be mobile in the soil;

13 Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
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.

14 Transport information

UN Number

Not regulated

UN Proper Shipping Name

Not regulated

Transport hazard class(es)

Not regulated

Packing group, if applicable

Not regulated

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

Some of the raw materials used to manufacture on the Canadian DSL

16 Other information

Other information

As per Workplace Health & Safety regulations in place, this SDS should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the safe use and handling of this product in the context of the user's operations.

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.