

Date of Preparation: March 16, 2021

Section 1: IDENTIFICATION

Product Name: Nutricote Total 13-11-11

Synonyms: Not available.

Product Use: Polymer coated controlled release fertilizer.

Restrictions on Use: Not available.

Manufacturer: JCAM AGRI. Co., Ltd.

6-6, Kandasudacho 2-chome, Chiyoda-ku, Tokyo, Japan

+81-3-5297-8905

Supplier: Plant Products Inc.

50 Hazelton Street

Leamington, Ontario N8H 3W1

Phone Number: 519-326-9037

Toll free number 1-800-387-2449 (English)
Toll free number 1-800-361-9184 (French)

Emergency Phone: For Hazardous Material Incident, Spill, Leak, Fire, Exposure or

Accident

CHEMTREC 1-800-424-9300 CCN843603

Date of Preparation of SDS: March 16, 2021

Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification: Acute Toxicity - Oral, Category 4

Acute Toxicity - Inhalation, Category 4

Skin Irritation, Category 2 Eye Irritation, Category 2A

LABEL ELEMENTS

Hazard

Pictogram(s):

Signal Word: Warning

Hazard Harmful if swallowed. Statements: Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

Precautionary Statements

Prevention: Avoid breathing mist, vapours, or spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing and eye protection.



SAFETY DATA SHEET Date of Preparation: March 16, 2021

Response: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor if you feel unwell.

Rinse mouth.

If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention.

Take off contaminated clothing and wash it before reuse.

Storage: Not applicable.

Disposal: Dispose of contents and container in accordance with applicable regional,

national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS							
Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.				
Nitric acid ammonium salt (1:1)	Ammonium nitrate	6484-52-2	30 - 60				
Sulfuric acid ammonium salt (1:2)	Ammonium sulphate	7783-20-2	3 - 7				
Boric acid (H3BO3)	Boric acid	10043-35-3	0.1 - 1				

Actual concentration range(s) withheld as a trade secret.

Section	4:	FIRST-	AID	ME	٩SU	RES
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Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: Harmful if inhaled. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal

discharge, headache, hoarseness, and nose and throat pain.

Eye Contact: If in eyes: Rinse cautiously with water for at least 20 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical attention.

Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred

or hazy vision.

Skin Contact: If on skin: Wash with plenty of water. If skin irritation occurs: Get medical

attention. Take off contaminated clothing and wash it before reuse.

Acute and delayed symptoms and effects: Causes skin irritation.

Signs/symptoms may include localized redness, swelling, and itching.



Date of Preparation: March 16, 2021

Ingestion: If swallowed: Rinse mouth. Call a poison center or doctor if you feel

unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious

person.

Acute and delayed symptoms and effects: Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain,

stomach upset, nausea, vomiting and diarrhea.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately

(show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May explode from heat or contamination. May ignite combustibles (wood, paper, oil, clothing, etc.). Containers may explode when heated. Runoff may create fire or explosion hazard.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact. **Sensitivity to Static Discharge:** This material is not sensitive to static discharge.

MEANS OF EXTINCTION

Suitable Extinguishing Media: Small Fire: Use water.

Large Fire: Flood fire area with water from a distance. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media: Do not use dry chemicals or foams. CO2 or Halon® may

provide limited control.

Products of Combustion: Oxides of carbon. Oxides of sulphur. Oxides of nitrogen.

Oxides of phosphorus. Ammonia. Potassium oxide. Oxides of

magnesium. Oxides of silicon. Oxides of boron.

Protection of Firefighters: Inhalation, ingestion or contact (skin, eyes) with vapors or

substance may cause severe injury, burns or death. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing that is specifically

recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing

will only provide limited protection.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area

in all directions for at least 25 meters (75 feet). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate



Date of Preparation: March 16, 2021

closed spaces before entering. Keep combustibles (wood, paper,

oil, etc.) away from spilled material.

Personal Precautions: Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing. Use personal protection

recommended in Section 8.

Environmental Precautions: Not normally required.

Methods for Containment: Stop leak if you can do it without risk. Do not get water inside

containers.

Methods for Clean-Up: Sweep up and shovel into suitable containers for disposal.

Other Information: See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Handling:

Do not swallow. Avoid breathing dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. See Section 8 for information on Personal Protective Equipment.

Storage:

Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines Component

Ammonium nitrate [CAS No. 6484-52-2]

ACGIH: 10 mg/m³ (TWA) (Inhalable.); 3 mg/m³ (TWA) (Respirable.); For Particles

(Insoluble or Poorly Soluble) Not Otherwise Specified

OSHA: 15 mg/m³ (Total dust) (TWA), 5 mg/m³ (Respirable fraction) (TWA); For

Particulates Not Otherwise Regulated (PNOR).

Ammonium sulphate [CAS No. 7783-20-2]

ACGIH: 10 mg/m³ (TWA) (Inhalable.); 3 mg/m³ (TWA) (Respirable.); For Particles

(Insoluble or Poorly Soluble) Not Otherwise Specified

OSHA: 15 mg/m³ (Total dust) (TWA), 5 mg/m³ (Respirable fraction) (TWA); For

Particulates Not Otherwise Regulated (PNOR).

Boric acid [CAS No. 10043-35-3]

ACGIH: 2 mg/m³ (TWA); 6 mg/m³ (STEL); A4; Inhalable particulate matter (2004)

OSHA: No PEL established.

PEL: Permissible Exposure Limit **TWA:** Time-Weighted Average **STEL:** Short-Term Exposure Limit

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels

of dust, fume, vapour, gas, etc.) below recommended

exposure limits.



Date of Preparation: March 16, 2021

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection: Wear chemical safety goggles. Indirect vented, dust-tight

> goggles are required if dust is generated when handling this product. Ensure that eyewash stations are close to the workstation location. Use equipment for eve protection that

meets the standards referenced by CSA Standard

CAN/CSA-Z94.3 and OSHA regulations in 29 CFR 1910.133

for Personal Protective Equipment.

Hand Protection: Wear protective gloves. Consult manufacturer specifications

for further information.

Skin and Body Protection: Wear protective clothing.

Respiratory Protection: If engineering controls and ventilation are not sufficient to

> control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4, with particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying

respirators.

General Hygiene Considerations: Handle according to established industrial hygiene and

> safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to

ensure adequate protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey granules.

Colour: Grey.

Odour: Odourless. **Odour Threshold:** Not available.

Physical State: Solid.

pH (10% solution in water):

Melting Point / Freezing

Point:

Not available.

Initial Boiling Point: Not available. **Boiling Range:** Not available. Flash Point:

Not available.



Date of Preparation: March 16, 2021

Evaporation Rate: Not available.

Flammability (solid, gas): See Section 5.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Relative Density: Not available.

Solubilities: Fertilizer inside the coating dissolves in water gradually.

Partition Coefficient: n-

Octanol/Water:

Not available.

Auto-ignition Temperature: Not available.

Decomposition

Not available.

Temperature:

Viscosity: Not available.

Percent Volatile, wt. %: Not available.

VOC content, wt. %: Not available.

Bulk Density: 1.1 g/cm³

Coefficient of Water/Oil

Not available.

Distribution:

Section 10: STABILITY AND REACTIVITY

Reactivity: Contact with incompatible materials. Sources of ignition. Exposure to

heat.

Chemical Stability: Stable under normal storage conditions.

Possibility of Hazardous

Reactions:

None known.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to

heat.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Not available.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.



Date of Preparation: March 16, 2021

Component Toxicity

Component CAS No. LD50 oral LD50 dermal LC50

Ammonium nitrate 6484-52-2 2217 mg/kg (rat) Not available. Not available. Ammonium sulphate 7783-20-2 640 mg/kg (mouse) Not available. Not available. Boric acid 10043-35-3 2660 mg/kg (rat) Not available. Not available.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs.

Blood. Cardiovascular system.

Symptoms (including delayed and immediate effects)

Inhalation: Harmful if inhaled. May cause respiratory irritation. Signs/symptoms may include

cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat

pain.

Eye: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain,

tearing, and blurred or hazy vision.

Skin: Causes skin irritation. Signs/symptoms may include localized redness, swelling,

and itching.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may

include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin Sensitization:Not available.Respiratory Sensitization:Not available.Medical ConditionsNot available.

Aggravated By Exposure:

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Blood.

Cardiovascular system.

Chronic Effects: May cause chronic effects. Prolonged or repeated contact may dry

skin and cause irritation. Symptoms of chronic poisoning by boron compounds, borism, vary from dry skin and mucous membranes to appearance of a red tongue, patchy alopecia (hair loss), cracked lips, and conjunctivitis. Infants and young children are more susceptible to

boric acid poisoning than adults.

Carcinogenicity: Product is not classified as a carcinogen. See Component

Carcinogenicity table below for information on individual components.

Component Carcinogenicity

ComponentACGIHIARCNTPOSHAProp 65Boric acidA4Not listed.Not listed.Not listed.

Mutagenicity: Not available.

Reproductive Effects: May damage fertility or the unborn child. Boric acid was found to

induce testicular atrophy and effects on spermatogenesis in rats and mice in various studies. Effects occurred at dose-levels (27 mg/kg)



Date of Preparation: March 16, 2021

without general toxicity. Boric acid has selectively damaged the testes,

sperm production and fertility in rats and dogs.

Developmental Effects

Teratogenicity: Possible risk of harm to the unborn child. Developmental effects were

observed in mice, rats and rabbits after oral administration of boric acid. However, these effects were considered secondary to maternal

toxicity (increased liver and kidney weight).

Embryotoxicity: Not available.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Other Adverse Effects: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national

and local laws and regulations. Local regulations may be more

stringent than regional or national requirements.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

Date of Preparation: March 16, 2021

Section 15: REGULATORY INFORMATION

Chemical Inventories

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS: March 16, 2021

Version: 1.0

GHS SDS Prepared by: Aegis Regulatory Inc.

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