

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Nitrolizer Duo
 Product Use: Agrochemicals
 Manufacturer/Supplier: INTERPROVINCIAL COOPERATIVE LTD.
 945 Marion St.
 Winnipeg, Manitoba
 R2J 0K7
www.ipco.ca
 Effective Date: 09/04/2020

2: HAZARD IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200:

Serious eye damage Category 1
 Reproductive toxicity Category 2
 Skin irritant Category 2
 Skin sensitizer Category 1
 Aspiration toxicity Category 1
 Combustible liquid Category 4

Pictograms:



Signal word: Danger
 Hazard statements: Causes serious eye damage. Suspected of damaging fertility or the unborn child. May cause an allergic skin reaction. Causes skin irritation. Combustible liquid. May be fatal if swallowed and enters airways.
 Precautionary statement: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing fumes/gas/mist/vapors/spray. Wear eye protection/face protection. Use personal protective equipment as required.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 IF ON SKIN: Wash with plenty of soap and water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/attention. Do NOT induce vomiting.
 Store locked up.
 Dispose of contents/container to an approved waste disposal plant.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
PHOSPHOROTHIOIC TRIAMIDE, N-BUTYL-	94317-64-3	10 - 30
DICYANDIAMIDE	461-58-5	10 - 30

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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4: FIRST AID MEASURES

If inhaled:	If breathed in, move person into fresh air. If breathing is difficult, give oxygen. If victim has stopped breathing: Administer CPR (cardio-pulmonary resuscitation). Get immediate medical advice/attention.
Skin contact:	In case of contact, immediate flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Seek medical advice. Wash contaminated clothing before re-use.
Eye contact:	Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Seek medical advice.
Ingestion:	Do not induce vomiting without medical advice. If victim is conscious: Rinse mouth with water. Keep at rest. Do not give anything to drink. Do not leave the victim unattended. Vomiting may occur spontaneously. Risk of product entering the lungs on vomiting after ingestion. Lay victim on side. Seek medical advice.
Risk:	Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

Notes to Physician: All treatments should be based on observed signs of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. There is no specific antidote available.

5: FIRE-FIGHTING MEASURES

Flash point:	>64 ⁰ C. Flammability Class: Will burn. Method Used: TAG Closed Cup.
Suitable extinguishing media:	Extinguishing media – small fires. Dry chemical Carbon dioxide (CO2) Extinguishing media – large fires Foam Water spray
Unsuitable extinguishing media:	High volume water jet (Frothing possible)
Specific hazards during firefighting:	Under fire conditions: Will burn. Container may rupture on heating. Highly toxic gases are released. Hazardous decomposition products formed under fire conditions. On combustion or on thermal decomposition (pyrolysis), releases: Nitrogen oxides (NOx) Sulfur oxides Carbon oxides Oxides of phosphorus Ammonia Hydrogen sulfide
Special protective equipment for firefighters:	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. For further information refer to section 8 Exposure controls/personal protection.”
Environmental precautions:	Do not flush into surface water or sanitary sewer system. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Methods for containment:	Use only non-sparking tools. Stop leak if safe to do so. Dam up with sand or inert earth (do not use combustible materials). Soak up with inert absorbent material.

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Shovel or sweep up. Keep in suitable, closed containers for disposal. Never return spills in original containers for re-use. Clean contaminated surface thoroughly. Flush with plenty of water. Recover the cleaning water for subsequent disposal. Decontaminate tools, equipment, and personal protective equipment in a segregated area. Dispose of in accordance with local regulations.

7: HANDLING AND STORAGE

Handling: Do not use sparking tools. Ensure all equipment is electrically grounded before beginning transfer operations. The product must only be handled by specifically trained employees. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Do not ingest. Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep away from incompatible materials to be indicated by the manufacturer. Do not mix with incompatible materials (see list, section 10). Storage temperature: <45° C (<113 F)

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters:	Ingredients	Value Type	Value	Basis
	Dimethyl sulfoxide	TWA	250 ppm	WEEL
Engineering measures:	Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize exposures: Effective exhaust ventilation system.			
Respiratory Protection:	When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.			
Hand protection:	Recommended preventive skin protection: Gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into account the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.			
Eye protection:	Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Eye contact should be prevented through the use of: Safety glasses with side-shields. Face-shield.			
Skin and body protection:	Recommended preventive skin protection. Footwear protection against chemicals. Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substances at the work place.			
Hygiene measures:	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. 3) Wash exposed skin promptly to remove accidental splashes or contact with material.			
Protective measures:	Ensure that eyewash stations and safety showers are close to the workstation location. Emergency equipment immediately accessible, with instructions for use. The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment. Selection of			

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appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Physical state: Liquid. Color: Green.
Odor:	Pine-like
Odor threshold:	No data available
pH:	No data available
Melting point/range:	No data available
Flash point:	>64°C. Closed cup. Flammability class: Will burn
Evaporation rate (butyl acetate = 1):	No data available
Flammability (solid, gas):	No data available
Flammability (liquids):	No data available
Flammability/Explosive limit:	No data available
Autoignition temperature:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	1.05 – 1.20 g/cm ³ (20 C (68 F))
Solubility in water:	Miscible
Coefficient of n-Octanol/water distribution:	No data available
Thermal decomposition:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Other:	This product does not sustain combustion.

10: STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Keep away from heat and sources of ignition.
Incompatible Materials:	Strong bases Strong oxidizing agents Strong reducing agents Perchloric acid Mineral acids Organic acids Metals in presence of moisture Zinc Mild steel Carbon steel

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Hazardous decomposition products:	Halogenated compounds
	Carbon oxides
	Sulfur oxides
	Oxides of phosphorus
	Nitrogen oxides (NOx)
	Ammonia
	Formaldehyde
	Dimethyl disulfide
	Phosphine

11: TOXICOLOGICAL INFORMATION

Acute toxicity:	No data available.
Mutagenicity:	No data available.
Toxicity for reproduction and development:	STOT-single exposure- No data available. STOT- repeated exposure- No data available.
Aspiration toxicity:	No data available

12: ECOLOGICAL INFORMATION

Toxicity:	No data available
Persistence and degradability:	No data available
Bio accumulative potential:	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	No data available
Other adverse effects:	No data available

13: DISPOSAL CONSIDERATIONS

Product/Container: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material. Waste code: EPA: Hazardous waste-NO. Rinse with an appropriate solvent. Dispose of contents/container in accordance with local regulations.

14: TRANSPORT INFORMATION

General:	DOT: Not regulated. TDG: Not regulated. IMDG Not regulated. IATA No regulated. Note: The above regulatory prescriptions are those valid on the date of publication of this sheet.
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15: REGULATORY INFORMATION

United States TSCA Inventory:	YES (positive listing) On TSCA inventory.
Canadian Domestic Substances List (DSL):	YES (positive listing). All components of this product are on the Canadian DSL.
Australia Inventory of Chemical Substances (AICS):	YES (positive listing). On the inventory, or in compliance with the inventory.

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Japan. CSCL – Inventory of Existing and New Chemical Substances:	N (Negative listing). Not in compliance with the inventory.
Korea. Korean Existing Chemicals Inventory (KECI):	N (Negative listing). Not in compliance with the inventory.
China. Inventory of Existing Chemical Substances in China (IECSC):	N (Negative listing). Not in compliance with the inventory.

16: OTHER INFORMATION

NFPA Classification:	Health: 3 serious Flammability: 1 slight Instability or Reactivity: 0 minimal
HMIS Classification:	Health: 3 serious Flammability: 1 slight Reactivity: 0 minimal
Key or legend to abbreviations and acronyms used in the safety data sheet:	Severe-4, Serious-3, Moderate-2, Slight-1, Minimal-0 TWA 8 hr time-weighted average ACGIH American Conference of Governmental Industrial Hygienists OSHA Occupational Safety and Health Administration WHMIS Workplace Hazardous Materials Information System NTP National Toxicology Program IARC International Agency for Research on Cancer NIOSH National Institute for Occupational Safety and Health NFPA National Fire Protection Association HMIS Hazardous Materials Identification System (Paint & Coating)
Date:	29/04/2020 (Reason: IPCO Logo update)
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