

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zenith
 Registration Number: 2022713S *Fertilizers Act*
 Product Use: Agrochemicals
 Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.
 945 Marion St.
 Winnipeg, Manitoba
 R2J 0K7
www.ipco.ca
 Effective Date: 18/09/2020

2: HAZARD IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200:

Eye irritant Category 2
 Skin irritant Category 2
 Flammable liquid Category 4

Pictograms:



Signal word: Warning!
 Hazard statements: Causes serious eye irritation. Causes skin irritation. Combustible liquid.
 Precautionary statement: Keep away from heat/sparks/open flames/hot surfaces. Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
 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 eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
 Store in a well-ventilated place. Keep cool. Dispose of contents/container to an approved waste disposal plant.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
DICYANDIAMIDE	461-58-5	20-50%
DIMETHYL SULFOXIDE	67-68-5	50-80%

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

In case of emergency call CANUTEC at 613-996-6666

Interprovincial Cooperative Ltd.; Information Phone: 204-233-3461

Effective Date: 19/08/2019

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:	88 C (190 F). Flammability Class: Combustible liquid. Method Used: Closed Cup.
Suitable extinguishing media:	Extinguishing media – small fires. Dry chemical Carbon dioxide (CO ₂) 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 (NO _x) Sulfur oxides Carbon oxides Oxides of phosphorus Ammonia Hydrogen sulfide Methanethiol Cyanides Dimethyl disulfide
Special protective equipment for firefighters:	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

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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. Methods for containment 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. 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: < 113 F (< 45 C)

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingredients with workplace control parameters:	Component	Value type	Value	Basis
	Dimethyl sulfoxide	TWA	250 ppm	WEEL
Engineering Controls:	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 or Face-shield.			
Skin and body protection:	Recommended preventive skin protection. Footwear protection against chemicals.			

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	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 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: Colorless
Odor:	Characteristic
Odor threshold:	No data available
pH:	No data available
Melting point/range:	< -58 F (< 50 C)
Flash point:	88 C (190 F). Closed cup. Flammability class: Combustible liquid.
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:	1.17 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

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,

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Hazardous decomposition products:	Mineral acids, Organic acids, Metals in presence of moisture, Zinc, Mild steel, Carbon steel, Halogenated compounds.
	Carbon oxides, Sulfur oxides, Oxides of phosphorus, Nitrogen oxides (NOx), Ammonia, Formaldehyde, Phosphine.

11: TOXICOLOGICAL INFORMATION

No data available

12: ECOLOGICAL INFORMATION

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.
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14: TRANSPORT INFORMATION**DOT:**

UN Number:	NA 1993
UN Proper Shipping Name:	Combustible liquid, n.o.s. (Dimethyl sulfoxide)
Hazard Class:	3
DOT Label:	Combustible liquid
<119 gallons:	Not regulated
>119 gallons:	Combustible
Packing group:	III

IMDG:

Marine pollutant:	No
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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.
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: 1 slight
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HMIS Classification:	Flammability: 1 slight
	Instability or Reactivity: 0 minimal
	Health: 1 slight
	Flammability: 1 slight
Key or legend to abbreviations and acronyms used in the safety data sheet:	Reactivity: 0 minimal
	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)
Revision Date:	28/01/2022 (Reason: CFIA Registration)
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