1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	IPCO AVANT
Pest Control Product Number:	34377
Product Use:	Agrochemicals/Herbicide
Manufacturer /Supplier:	INTERPROVINCIAL COOPERATIVE LTD. 945 Marion St. Winnipeg, Manitoba R2J 0K7 www.ipco.ca
Effective Date:	01/06/2022
	This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations:

Flammable liquids	Category 4
Eye irritation	Category 2A
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity — Repeated exposure	Category 2 (Urinary system, Liver)
Aspiration hazard	Category 1

Pictograms:

Signal word: Danger

Hazard statements:
Combustible liquid.
May be fatal if swallowed and enters airways.
Causes serious eye irritation.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs (Urinary system, Liver) through prolonged or repeated exposure.

Precautionary statements:
Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/face protection.
Response:
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use dry sand, dry chemical oralcohol-resistant foam to extinguish.
Storage:
Store in a well-ventilated place.
Store locked up.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not assigned	>= 30% - < 60%
(Tetrahydro-furan-2-yl)-methanol	97-99-4	>= 10% - < 30%
Pinoxaden	243973-20-8	>= 5% - < 10%
Cloquintocet-mexyl	99607-70-2	>= 1% - < 5%
Naphthalene	91-20-3	>= 0.1% - < 1%

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

4: FIRST AID MEASURES

General advice:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
Inhalation:	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.
Skin contact:	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting contains petroleum distillates and/or aromatic solvents.
Most important symptoms and effects, both acute and delayed:	Aspiration may cause pulmonary oedema and pneumonitis.
Notes to physician:	There is no specific antidote available. Treat symptomatically. Do not induce vomiting contains petroleum distillates and/or aromatic solvents.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Extinguishing media - small fires. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires. Alcohol-resistant foam
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.
Further information:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
Special protective equipment for firefighters:	Wear full protective clothing and self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback**.**
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up:	Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

7: HANDLING AND STORAGE

Advice on safe handling:	Avoid contact with skin and eyes. When using do not eat, drink or smoke. Use only in an area containing flame proof equipment. Take precautionary measures against static discharges. For personal protection see section 8.
Conditions for safe storage:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from combustible material. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feeding stuffs. No smoking.
Further information:	Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not assigned	TWA	8 ppm 50 mg/m3	Supplier
Pinoxaden	243973-20-8	TLV-C	0.1 mg/m3	Supplier
Cloquintocet-mexyl	99607-70-2	TWA	5 mg/m3	Supplier
Naphthalene	91-20-3	TWA	10 ppm 52 mg/m3	CA AB OEL
		STEL	15 ppm 79 mg/m3	CA AB OEL
		TWA	10 ppm	CA BC OEL
		VEMP	10 ppm	CA QC OEL
		TWA	10 ppm	ACGIH

Engineering measures:

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment:	
Respiratory protection:	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.
Hand protection:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection:	Tightly fitting safety goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Skin and body protection:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing
Protective measures:	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, liquid
Color:	Yellow to orange
Odor:	Aromatic
Odor threshold:	No data available
pH:	3 – 7 (Concentration: 1 % w/v)
Melting point:	Not data available
Boiling point:	No data available
Flash point:	79 °C (Method: Seta closed Cup)
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	1.03 g/ml (20 °C)
Solubility in water:	No data available
Solubility in other solvents:	No data available
Partition coefficient n-octanol/water:	No data available
Auto ignition temperature:	305 °C
Decomposition temperature:	No data available
Viscosity, dynamic:	4.41 mPa.s (40 °C) 8.34 mPa.s (20 °C)
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Surface tension	36.6 mN/m, 25 °C
Particle size	No data available

10: STABILITY AND REACTIVITY

Reactivity:	None reasonably foreseeable.
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	No decomposition if used as directed.
Incompatible Materials:	None known.
Hazardous decomposition products:	No hazardous decomposition products are known.

11: TOXICOLOGICAL INFORMATION

Acute toxicity:

Product:
Acute oral toxicity: LD50 (Rat, female): 3,129 mg/kg
Acute inhalation toxicity: LC50 (Rat, male and female): > 5.0 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Components:
Pinoxaden:
Acute oral toxicity: LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity: LC50 (Rat, male): 4.63 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Cloquintocet-mexyl:
Acute oral toxicity: LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity: LC50 (Rat, male and female): > 0.935 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The component/mixture is moderately toxic after short term inhalation.
Remarks: Highest attainable concentration
Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Naphthalene:
Acute oral toxicity: Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation:

Product:
Species: Rabbit
Result: Mild skin irritation

Components:
Hydrocarbons, C10-C13, aromatics, <1% naphthalene:
Result: Repeated exposure may cause skin dryness or cracking.

Pinoxaden:
Method: Based on Human Evidence
Result: Irritating to skin.

Serious eye damage/eye irritation:	**Cloquintocet-mexyl:** Species: Rabbit Result: No skin irritation **Product:** Species: Rabbit Result: Irritation to eyes, reversing within 21 days **Components:** **(Tetrahydro-furan-2-yl)-methanol:** Result: Eye irritation **Pinoxaden:** Species: Rabbit Result: Irritation to eyes, reversing within 21 days **Cloquintocet-mexyl:** Species: Rabbit Result: No eye irritation
Respiratory or skin sensitisation:	**Product:** Test Type: Buehler Test Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. **Components:** **Pinoxaden:** Test Type: mouse lymphoma cells Species: Mouse Result: The product is a skin sensitiser, sub-category 1A. Test Type: Respiratory sensitisation Result: Does not cause respiratory sensitisation. Remarks: Experience with human exposure **Cloquintocet-mexyl:** Species: Guinea pig Result: May cause sensitisation by skin contact.
Germ cell mutagenicity:	**Components:** **Pinoxaden:** Germ cell mutagenicity -Assessment: Animal testing did not show any mutagenic effects. **Cloquintocet-mexyl:** Germ cell mutagenicity -Assessment: Animal testing did not show any mutagenic effects.
Carcinogenicity:	**Components:** **Pinoxaden:** Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies. **Cloquintocet-mexyl:** Carcinogenicity -Assessment: No evidence of carcinogenicity in animal studies. **Naphthalene:** Carcinogenicity -Assessment: Limited evidence of carcinogenicity in animal studies
Reproductive toxicity:	**Components:** **(Tetrahydro-furan-2-yl)-methanol:** Reproductive toxicity -Assessment: Clear evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Pinoxaden:
Reproductive toxicity -Assessment: No toxicity to reproduction

Cloquintocet-mexyl:
Reproductive toxicity -Assessment: No toxicity to reproduction

STOT - single exposure:

Components:
Pinoxaden:
Assessment: Based on Human Evidence, the substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Remarks: Breathing difficulties Cough. Acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition.

Cloquintocet-mexyl:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure:

Components:
Pinoxaden:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Cloquintocet-mexyl:
Target Organs: Urinary system, Liver
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity:

Components:
Hydrocarbons, C10-C13, aromatics, <1% naphthalene:
May be fatal if swallowed and enters airways.

12: ECOLOGICAL INFORMATION

Ecotoxicity:

Product:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 5.6 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants: ErC50 (Pseudokirchneriella subcapitata (green algae)): 9.7 mg/l
Exposure time: 72 h
NOEC (Pseudokirchneriella subcapitata (green algae)): 2.5 mg/l
End point: Growth rate
Exposure time: 72 h

Components:
Hydrocarbons, C10-C13, aromatics, <1% naphthalene:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg / l
Exposure time: 96 h
Notes: Information provided is based on data of components and the toxicology of similar products.
Toxicity to daphnia and other aquatic invertebrates: EL50 (Daphnia magna (Water flea)): 1.1 mg / l
Duration of exposure: 48 h
Notes: Information given is based on component data and the toxicology of similar products.
Toxicity to algae/aquatic plants: EL50 (Raphidocelis subcapitata (freshwater green algae)): 7.9 mg / l
Endpoint: Growth rate
Exposure time: 72 h
Notes: Information given is based on component data and the toxicology of similar products.
NOELR (Raphidocelis subcapitata (freshwater green algae)): 0.22 mg / l

Endpoint: Growth rate
Exposure time: 72 h
Notes: Information given is based on component data and the toxicology of similar products.

Ecotoxicology Assessment
Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

Pinoxaden:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 10.3 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 52 mg/l
Exposure time: 48 h
Toxicity to algae/aquatic plants: ErC50 (Pseudokirchneriella subcapitata (green algae)): 41 mg/l
Exposure time: 72 h
ErC50 (Skeletonema costatum (marine diatom)): 1.72 mg/l
Exposure time: 72 h
NOEC (Skeletonema costatum (marine diatom)): 0.94 mg/l
End point: Growth rate
Exposure time: 96 h
NOEC (Lemna gibba (gibbous duckweed)): 0.73 mg/l
End point: Growth rate
Exposure time: 7 d
Toxicity to fish (Chronic toxicity): NOEC (Oncorhynchus mykiss (rainbow trout)): 6.6 mg/l
Exposure time: 28 d

Cloquintocet-mexyl:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.97 mg/l
Exposure time: 96 h
LC50 (Gobiocypris rarus (rare gudgeon)): 0.102 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 0.82 mg/l
Exposure time: 48 h
Toxicity to algae/aquatic plants: ErC50 (Desmodesmus subspicatus (green algae)): > 2.2 mg/l
Exposure time: 72 h
NOEC (Desmodesmus subspicatus (green algae)): 0.12 mg/l
End point: Growth rate
Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia (water flea)): > 0.437 mg/l
Exposure time: 21 d
Toxicity to microorganisms: EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h

Naphthalene:
Ecotoxicology Assessment
Acute aquatic toxicity: Very toxic to aquatic life.
Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Persistence and degradability:

Components:
Hydrocarbons, C10-C13, aromatics, <1% naphthalene:
Biodegradability: Result: Easily degradable

Pinoxaden:
Biodegradability: Result: Rapidly degradable
Stability in water: Degradation half life: 0.3 d
Remarks: Product is not persistent.

Cloquintocet-mexyl:
Biodegradability: Result: Not readily biodegradable.
Stability in water: Degradation half life: 0.4 d
Remarks: Product is not persistent.

Bioaccumulative potential:

Components:
Pinoxaden:
Bioaccumulation: Remarks: Low bioaccumulation potential.

Cloquintocet-mexyl:
Bioaccumulation: Remarks: Does not bioaccumulate.
Partition coefficient: noctanol/water: log Pow: 5.24 (25 °C)

Mobility in soil:

Components:
Pinoxaden:
Distribution among environmental compartments: Remarks: Moderately mobile in soils
Stability in soil: Dissipation time: 0.1 - 1.8 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

Cloquintocet-mexyl:
Distribution among environmental compartments: Remarks: immobile
Stability in soil: Dissipation time: 2.4 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

Other adverse effects:

Components:
Pinoxaden:
Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Cloquintocet-mexyl:
Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Naphthalene:
Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

13: DISPOSAL CONSIDERATIONS

Disposal methods:

Waste from residues:
Refer to the product label for specific disposal/recycling information. Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging:
Refer to the product label for specific disposal/recycling information. Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14: TRANSPORT INFORMATION

International Regulations:

UNRTDG

UN Number	UN 3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA)
Class:	9
Packaging Group:	III
Labels:	9

IATA-DGR:

UN/ID No:	UN3082
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (SOLVENT NAPHTHA)
Class:	9
Packaging Group:	III
Labels:	Class 9 - Miscellaneous dangerous substances and articles
Packing instruction (cargo aircraft):	964
Packing instruction (passenger aircraft):	964
Environmentally hazardous:	Yes

IMDG-code:

UN Number:	UN3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA)
Class:	9
Packaging Group:	III
Labels:	9
EmS Code:	F-A, S-F
Marine pollutant:	Yes
	Transport in bulk under Annex II of MARPOL 73/78 and IBC Code: Not applicable for the product as supplied.

National Regulations:

TDG:

UN Number:	UN3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA)
Class:	9
Packaging Group:	III
Labels:	9
ERG Code:	171
Marine pollutant:	Yes (SOLVENT NAPHTHA)
Remarks:	Class 9 Exemption from Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, if transported solely on land by road vehicle or railway vehicle.

Special precautions for user: The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet.

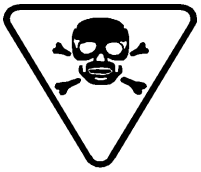
In case of emergency call CANUTEC at 613-996-6666
Interprovincial Cooperative Ltd.; Information Phone: 204-233-3461

Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15: REGULATORY INFORMATION

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product. There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.



POISON

WARNING: EYE AND SKIN IRRITANT

NPRI Components:
Naphthalene
Solvent naphtha (petroleum), highly arom.
Toluene
1-methyl-2-pyrrolidone
The components of this product are reported in the following inventories:
DSL: This product contains the following components that are not on the Canadian DSL nor NDSL.
Hydrocarbons, C10-C13, aromatics, <1% naphthalene
Pinoxaden
Cloquintocet-mexyl
Poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-
Canadian lists: No substances are subject to a Significant New Activity Notification.

16: OTHER INFORMATION

Full text of other abbreviations
ACGIH: USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL: Canada. British Columbia OEL
CA QC OEL: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA: 8-hour, time-weighted average
CA AB OEL / TWA: 8-hour Occupational exposure limit
CA AB OEL / STEL: 15-minute occupational exposure limit
CA BC OEL / TWA: 8-hour time weighted average
CA QC OEL / TWAEV: Time-weighted average exposure value
CA QC OEL / STEV: Short-term exposure value
AICS: Australian Inventory of Chemical Substances
ANTT: National Agency for Transport by Land of Brazil;
ASTM - American Society for the Testing of Materials; bw - Body weight
CMR: Carcinogen, Mutagen or Reproductive Toxicant;
DIN - Standard of the German Institute for Standardisation
DSL: Domestic Substances List (Canada)
ECx: Concentration associated with x% response
ELx: Loading rate associated with x% response
EmS: Emergency Schedule
ENCS: Existing and New Chemical Substances (Japan)
ErCx: Concentration associated with x% growth rate response
ERG: Emergency Response Guide;
GHS - Globally Harmonized System
GLP: Good Laboratory Practice
IARC: International Agency for Research on Cancer

In case of emergency call CANUTEC at 613-996-6666
Interprovincial Cooperative Ltd.; Information Phone: 204-233-3461

IATA: International Air Transport Association
IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: Half maximal inhibitory concentration
ICAO: International Civil Aviation Organization
IECSC: Inventory of Existing Chemical Substances in China
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization
ISHL: Industrial Safety and Health Law (Japan)
ISO: International Organisation for Standardization
KECI: Korea Existing Chemicals Inventory
LC50: Lethal Concentration to 50 % of a test population
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL: International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm
NO(A)EC – No Observed (Adverse) Effect Concentration
NO(A)EL - No Observed (Adverse) Effect Level
NOELR: No Observable Effect Loading Rate
NOM: Official Mexican Norm
NTP: National Toxicology Program
NZIoC: New Zealand Inventory of Chemicals
OECD: Organization for Economic Co-operation and Development
OPPTS: Office of Chemical Safety and Pollution Prevention
PBT: Persistent, Bioaccumulative and Toxic substance
PICCS: Philippines Inventory of Chemicals and Chemical Substances
(Q)SAR: (Quantitative) Structure Activity Relationship
REACH: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SADT: Self-Accelerating Decomposition Temperature
SDS: Safety Data Sheet
TCSI: Taiwan Chemical Substance Inventory
TDG: Transportation of Dangerous Goods
TSCA: Toxic Substances Control Act (United States)
UN: United Nations
UNRTDG: United Nations Recommendations on the Transport of Dangerous Goods
vPvB: Very Persistent and Very Bioaccumulative
WHMIS: Workplace Hazardous Materials Information System

Revision Date/Reason:	January 06, 2022/ New SDS
Notice:	The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Interprovincial Cooperative Limited cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.