



Interprovincial Cooperative Limited

AG-SURF ORIGINAL

MATERIAL SAFETY DATA SHEET

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ag-Surf Original
Product Use: Adjuvant
Product Number: 15881

Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.
945 Marion St.
Winnipeg, Manitoba
R2J 0K7 www.ipco.ca

Effective Date: Jan 17, 2017

This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

Effects of Overexposure:

Route of Exposure: Inhalation, eye contact, skin contact, ingestion.
Inhalation Harmful if inhaled. Mists may cause coughing, shortness of breath, upper respiratory tract irritation
Eye Contact Liquid is severe irritant; may cause corneal damage and conjunctivitis. Vapour is an irritant; may cause corneal damage and photophobia (light sensitivity).
Skin Contact Causes irritation. Can cause redness, inflammation on prolonged contact
Ingestion May cause nausea, vomiting and stomach cramps

3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
Nonylphenoxy polyethoxy ethanol	68412-54-4	89.24 – 94.76
Isobutyl alcohol	78-83-1	5.24 – 10.76

Ingredients not listed are proprietary or non-hazardous

4: FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Obtain medical attention IMMEDIATELY.
Ingestion: Unless unconscious or convulsing dilute material with 1-2 glasses of water or milk. DO NOT induce vomiting. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Skin: Flush skin with running water, and then continue flushing with running water for 5 - 10 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.
Eyes: In case of contact, immediately flush eyes with plenty of water for 5 - 10 minutes and get medical attention.
Emergency Medical Care: Treatment based on judgment of the physician in response to reaction of the patient. There is no specific antidote.

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

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

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5: FIRE-FIGHTING MEASURES

Unusual Fire & Explosion Hazards:	Product will burn under fire conditions. Vapours may travel a considerable distance to a source of ignition and flash back along vapour trail.
Extinguishing Media:	CO ₂ , water fog or foam
Special Oxidizing Material Hazards:	Not Established
Hazardous Combustion Products:	Carbon oxides and products of incomplete combustion.
Special Fire Fighting Procedures:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

6: ACCIDENTAL RELEASE MEASURES

In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

7: HANDLING AND STORAGE

Store in a cool, well-ventilated area above 5°C. Keep away from heat, sparks and filling of containers. Keep away from children; prevent contact with eyes, skin, and clothing. Do not store near fertilizers, foodstuffs, seed, insecticides or fungicides.

Do not contaminate irrigation ditches or domestic water supplies. If this happens notify police and local authorities.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Limits:**

Isobutanol	
T.L.V. (ACGIH):	100 ppm
Phenol Ethoxylate	
T.L.V. (ACGIH):	Not Established

Personal protective equipment for each exposure route:

General: Avoid breathing dust, vapors or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, applying cosmetics or handling tobacco.

Ingestion: Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

Eyes: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin: Where contact is likely, wear chemical-resistant gloves (such as nitrile or butyl), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: A respirator is not normally required when handling this substance. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH certified combination air-purifying respirator with an N, P, R or HE class filter and an organic vapors cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits (e.g. emergency spills).

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9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance & Odour:	Hazy Colourless liquid, slight odour
Specific Gravity:	(@ 20°C): 1.0300 g/mL
Vapour density:	(Air = 1): 2.55
Solubility in water:	Miscible
Solubility in liquids:	Not Established
Freezing point:	-7°C
Pour point:	8°C
% volatile by volume:	Not Applicable
Boiling point:	108°C
Odour threshold (ppm):	Not Established
Coefficient of water/oil distribution:	Not Applicable
Vapour pressure:	10 mg Hg @ 25°C
Evaporation rate:	Not Established
pH (5% wt/wt):	7 - 8
Viscosity:	Not Established
Flash Point & Method:	(°C): 42 (Tag Closed Cup)
Flammable Limits (% in air):	Lower: 1.80 Upper: 10.60
Autoignition Temperature	Not Applicable

10: STABILITY AND REACTIVITY

Decomposition Temp:	Not Established
Stability:	Stable under normal conditions.
Materials to Avoid:	Strong oxidizing and reducing agents
Hazardous Decomposition Products:	Oxides of carbon
Hazardous Polymerization or Condensation:	Will not occur.
Conditions to Avoid:	Elevated temperatures.

11: TOXICOLOGICAL INFORMATION

Skin Absorption:	Acute dermal LD50 (Rabbit)	4240 mg/kg.
Ingestion:	Acute oral LD50 (Rat)	2460 mg/kg.
Inhalation:	LC50 (Rat)	8000 ppm air – 4 hours.
Eye Contact:	Moderately Irritating (Rabbit)	
Skin Contact:	Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Guinea Pig)	

Chronic/Subchronic Toxicity Studies:	Not Available
Carcinogenicity:	Not Available
Reproductive Toxicity:	Not Available
Developmental Toxicity:	Not Available
Genotoxicity:	Not Available

Other Toxicity Information: Isobutanol - Ingestion of or exposure to large amounts may cause central nervous system (CNS) depression. Product may be irritating to the nose, throat and respiratory tract. Repeated and/or prolonged contact with skin may cause dermatitis. This product causes eye and skin irritation, redness and pain.

Toxicity of Other Components The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the "other components" in the formulation.

Other materials that show synergistic effects together with the product: None known.

Target Organs: Not Available.

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12: ECOLOGICAL INFORMATION

Summary of Effects

Ag Surf Original is an adjuvant used as a registered tank-mix partner for select herbicide products. As a petroleum-based product, this adjuvant has the potential to be toxic to aquatic biota. Do not apply this product directly to freshwater habitats, estuaries, or marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Environmental Fate

Although Ag Surf Original is not directly applied to surface waters, it may reach the aquatic environment via off-target spray drift or overland run-off during heavy rainfall events. In addition, Ag Surf Original has limited potential for leaching to groundwater. However, degradation in soil and the aquatic environment is expected to occur fairly rapidly via microbial biotransformation and hydrolysis.

13: DISPOSAL CONSIDERATIONS

Dispose of waste materials in an approved incinerator or waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of wastes in local sewer or with normal waste.

14: TRANSPORT INFORMATION

Heated Transport if Temperature is below 5°C

If packaging container > 450 L:

Shipping Name: FLAMMABLE LIQUID, N.O.S.* (ISOBUTANOL)
P.I.N.: UN1993
Classification: 3
Packing Group: III

This product is exempt from parts 3-7, 9 & 10 of the Transportation of Dangerous Goods regulations according to section 1.33 when shipped by a roadway or railway vehicle.

15: REGULATORY INFORMATION

Pest Control Products Act

Registration Number: 15881
For Information Phone: 204-233-3461

16: OTHER INFORMATION

WHMIS Ratings:

B3, D2B

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, IPCO cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.

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