



# AG-SURF II

# MATERIAL SAFETY DATA SHEET

## 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ag-Surf II\*  
Product Use: Adjuvant  
Product Number: 30265

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

Effective Date: June 17/2016

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)
Alcohols, C9-11, ethoxylated	68439-46-31	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

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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 <sub>2</sub> , 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. 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	
LD50-Oral:	> 2830 mg/kg Rat
LD50-Dermal:	> 2000 mg/kg Rat
LC50:	> 24 mg/l 4 hr Rat
T.L.V. (ACGIH):	100 ppm
Alcohol Ethoxylates	
LD50-Oral:	> 2000 mg/kg Rat
LD50-Dermal:	> 2000 mg/kg Rabbit
LC50:	Not Established
T.L.V. (ACGIH):	Not Established
Special Engineering Controls:	Local exhaust ventilation required.
Eye Protection:	CSA approved safety glasses with side shields or goggles.
Respiratory Protection:	No respiratory protection needed unless mist generated, then a NIOSH/MSHA toxic mist mask suggested.
Hand and Arm:	PVC or rubber gloves.
Feet:	Rubber boots.
Body:	Coveralls.
Other Personal Protection:	Recommendations listed above indicate the type of equipment which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

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**9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid
Appearance & Odour:	Clear liquid, slight odour
Specific Gravity:	(@ 20 <sup>o</sup> c): 0.9706
Vapour density:	Not established
Solubility in water:	Miscible
Solubility in liquids:	Not Established
Freezing point:	Not Established
% volatile by volume:	Not Applicable
Boiling point:	100 <sup>o</sup> c
Odour threshold (ppm):	Not Established
Coefficient of water/oil distribution:	Not Applicable
Vapour pressure:	Not Established
Evaporation rate:	Not Established
pH (1% wt/wt):	6.7
Viscosity:	Not Established
Flash Point & Method:	( <sup>o</sup> C): > 46.7 (Tag Closed Cup)
Flammable Limits (% in air):	Lower: 0.096 estimated Upper: 0.872 estimated
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 (Rat)	>5000 mg/kg.
Ingestion:	Acute oral LD50 (rat)	2000 mg/kg.
Inhalation:	LC50	Not Established
Chronic Health Hazards:	Excessive exposure may cause liver, kidney, gastrointestinal and muscle effects. Signs and symptoms of excessive exposure may be nausea, vomiting, abdominal cramps and diarrhea.	
Chronic Effects/ Carcinogenicity:	Not Available	
Reproductive Toxicity:	Not Available	
Developmental Toxicity	Not Available.	
Genotoxicity:	Not Available.	

**12: ECOLOGICAL INFORMATION****Data on Alcohol Ethoxylates:**

96-Hour LC50 (mg/L): > 8 (Fish)  
 48-Hour EC50 (mg/L): > 5.4 (Daphnia)  
 96-Hour EC50 (mg/L): > 2.9 (Algae)  
 7 Day LOEC (mg/l) > 2 (Aquatic)

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**Chemical Fate Information:** Readily biodegradable

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**13: DISPOSAL CONSIDERATIONS**

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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.

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**14: TRANSPORT INFORMATION**

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Shipping Name: > 0R = 450 L, FLAMMABLE LIQUID, N.O.S.\* (ISOBUTANOL)/450 L, NON REGULATED  
Classification: 3  
P.I.N.: UN1993  
Packing Group: III

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**15: REGULATORY INFORMATION**

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Pest Control Products Act  
Registration Number: 30265  
For Information Phone: 204-233-3461  
MSDS Status/  
Revised Sections:  
Replaces MSDS Dated: July 08, 2013

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**16: OTHER INFORMATION**

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WHMIS Ratings: B3, D2B  
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