

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

OSTREM CHEMICAL CO. LTD.
2310 - 80 AVENUE
EDMONTON AB T6P 1N2

Phone: 780-440-1911 or 780-446-0177
In Case of Emergency Only:
phone CANUTEC at (613) 996-6666

Product name: SURF 92
Other name:
Distributed by:
Product use: spray adjuvant
Date completed: April 01, 2014

Code: E410

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
isopropanol (99%)	5-10	67-63-0

3. HAZARDS IDENTIFICATION

Combustible liquid. Eye irritant. Harmful if swallowed.

4. FIRST AID MEASURES

Inhalation: Remove from exposure. Get fresh air.
Ingestion: Do not induce vomiting. If irritation persists, seek medical attention.
Eye contact: Flush with plenty of water for 15 minutes. Get medical attention if irritation persists.
Skin contact: Remove contaminated clothing and flush with plenty of water.

5. FIRE - FIGHTING MEASURES

Flash point (test method): 38C
Flammable limits (%):
 Lower: Not available
 Upper: Not available
Fire extinguishing substances: use extinguishing media appropriate for surrounding fire
Autoignition temperatures: Not available
Hazardous combustion products: May liberate carbon monoxide and carbon dioxide.
Explosion data:
 Sensitivity to mechanical impact: Not available
 Sensitivity to static discharge: Not available
Special firefighting procedures: As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all ignition sources and wear protective equipment.
Environmental precautions: Prevent from entering sewers, waterways or low areas.
Methods for cleaning up: Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. HANDLING AND STORAGE

Handling: Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage: Keep out of reach of children. Keep container tightly closed. Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

Respiratory protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator

Eye protection: Chemical goggles. Wear a face shield if splashing hazards exists.

Other protection: Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
isopropanol (99%)	TWA=400 ppm		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid	Solubility in water:	100%
Boiling point:	Not available	Vapour pressure:	Not available
Vapour density:	Not available	Evaporation rate:	Not available
Freezing point:	Not available	Odour threshold:	Not available
Sp. Gravity:	1.025 @ 20°C	pH:	7.6
Appearance & odour:	clear liquid with slight alcohol odour		

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions of instability:	Not available
Incompatibility:	Not available
Conditions of reactivity:	Not available
Hazardous decomposition products:	Not available

11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation:	No known significant effects.
Ingestion:	Swallowing small amounts of this material is not likely to cause harmful effects. Large amounts may cause stomach and intestinal irritation, abdominal pain and vomiting.
Eye contact:	May cause mild to severe irritation such as stinging, tearing, redness and swelling of the eyes.
Skin contact:	May cause skin irritation.
Skin absorption:	Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation:	No known significant effects.
Ingestion:	Not available
Eye contact:	Not available
Skin contact:	Not applicable
Skin absorption:	Not applicable

Irritancy of product:	See WHMIS criteria
Sensitization of product:	Not available
Carcinogenicity:	No known significant effects.
IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
Reproductive toxicity:	No known significant effects.
Teratogenicity:	No known significant effects.
Mutagenicity:	No known significant effects.

Synergistic product: Not available

HAZARDOUS INGREDIENTS

isopropanol (99%)

CAS NO.

67-63-0

TOXICITY DATA

LD₅₀ Oral (rat) 5045 mg/kg

LD₅₀ Dermal (rabbit) 5030 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Not available

Other information:

13. DISPOSAL CONSIDERATIONS

Waste disposal: Disposal of all waste must be done according to local, provincial and federal regulations.

14. TRANSPORT INFORMATION

TDG classification:

In quantities over 450 L: FLAMMABLE LIQUID (ISOPROPYL ALCOHOL); Class 3, UN 1993; PG III
Not regulated in quantities under 450 L.

15. REGULATORY INFORMATION

WHMIS: Not controlled (PCP# 21313)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. PREPARATION INFORMATION

Prepared by: Technical Services Department, Ostrem Chemical Co. Ltd., Ph: (780) 440-1911