



SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

MANUFACTURER:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name: PROSAT ® and SATWIPES ® family of Presaturated Wipers containing 100% by volume of Isopropyl Alcohol.

Part Numbers: PSCS1002, PSCS1005, PSCS1009, PSPS0086S, PSPS1004, SW420146/18

Hazardous Ingredients:	Concentration (% by volume)	CAS Number
Isopropyl Alcohol (2-propanol)	> 99.8%	000067-63-0

3. HAZARDS IDENTIFICATION

- This product contains flammable liquid and may release flammable vapor into the work environment.
- Eye contact may result in moderate to severe irritation.
- Skin contact may result in minor to moderate irritation.
- If inhaled or aspirated into lungs, isopropyl alcohol may cause nausea, intoxication, central nervous system depression, headache and chemical pneumonia.
- High vapor concentrations may cause irritation of eyes, mucous membranes and respiratory tract. Prolonged inhalation may result in unconsciousness and death.
- If ingested, abdominal pain and vomiting may result.

4. FIRST AID MEASURES

NEVER give fluids or induce vomiting if patient is unconscious or is having convulsions.

- Seek medical assistance for all cases of overexposure.

- For skin contact, remove contaminated clothing. Wash contact areas thoroughly with soap and water. Before “re-use”, all contaminated clothing must be cleaned (if possible).
- For eye exposure, immediately flush eyes thoroughly with water for at least 15 minutes.
- For inhalation, remove to fresh air. If breathing is difficult, 100%-humified oxygen should be administered. If breathing has stopped, give artificial respiration and transport to nearest medical facility.
- If ingested, do not induce vomiting and rinse mouth out with water. If unconscious, do not give liquids to the victim. If vomiting occurs while unconscious, keep head below hips to prevent aspiration. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

- Flammable Limits: 2% (LEL) 12% (UEL)
- Recommended extinguishing media includes dry chemical, carbon dioxide and “alcohol” foam. Use water spray to cool fire-exposed containers and disperse vapors. Direct water spray may cause liquid to migrate to other work zones.
- Protective equipment for fire response should include self-contained breathing apparatus and full “turn-out” gear.
- This product may present a dangerous fire and explosion hazard. Vapor can travel distances to ignition source and flash back. Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below published auto-ignition or ignition temperatures. Ignition temperatures decrease with increasing vapor volume and vapor / air contact time and are influenced by pressure changes. Ignition may occur at typical elevated temperature process conditions, especially in process equipment operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs.
- Care must be taken to prevent static discharge. Whenever transferring a flammable liquid, all containers must be bonded and grounded.
- Hazardous decomposition products include carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

- Because the wiper fabric has absorbed the liquid solvent solution, spills are unlikely with presaturated wipers. In the event of a spill, evacuate the area of all unnecessary personnel. Wear suitable protective equipment as listed under Exposure Controls / Personal Protection.
- Eliminate all sources of ignition. Contain the spill and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Disposal Considerations. Comply with all government regulations on reporting releases.

7. HANDLING AND STORAGE

- Keep container closed and away from heat, sparks and flames.
- Store in a cool area away from ignition sources and oxidizers.
- Do NOT breathe vapors and avoid eye contact.
- Avoid prolonged or repeated skin contact.
- Electrically ground all equipment when handling this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- If workplace exposure limits are exceeded (reference TLV / PEL), a NIOSH / MSHA approved air supplied respirator is advised in absence of proper environmental control. Engineering and administrative controls should be implemented to reduce exposure. Transfer material in an approved fume hood or with adequate ventilation.
- Butyl rubber and/or PVC chemical gloves are recommended to prevent skin contact.
- Safety glasses with side shields must be worn at all times. For splash hazards, safety eyewear should be upgraded to include chemical splash goggles.
- Wash all contact areas thoroughly after handling. Do NOT take internally. Eyewash and safety shower should be readily available.
- OSHA PEL for **Isopropyl Alcohol** = 400 ppm (980 mg/m³) 8-hour TWA
- NIOSH REL for **Isopropyl Alcohol** = 400 ppm (980 mg/m³) 10-hour TWA and 500 ppm (1,225 mg/m³) STEL

9. PHYSICAL AND CHEMICAL PROPERTIES

- The following delineates the physical and chemical properties for the wiper presaturation solution, which is 100% by volume of Isopropyl Alcohol:

Flash Point	13.3°C (56 °F)
Boiling Point	82.3°C (180 °F)
Melting Point	-88.5°C (-127 °F)
Specific Gravity	0.789 (H ₂ O = 1)
Vapor Pressure	4.3 kPa (32 mmHg) at 20°C
Percent Volatile	100 % by volume
VOC Content	6.44 lbs / gallon at 24°C
Vapor Density	2.1 (AIR = 1)
Evaporation Rate	1.4 (Butyl Acetate = 1)
Solubility in Water	Completely soluble
Appearance	Clear, colorless liquid with a mild odor.

10. STABILITY AND REACTIVITY

- This product is considered stable. Hazardous polymerization will not occur.
- Avoid ignition sources, heat, hot surfaces and areas with elevated temperatures.
- Avoid contact strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

- Skin (Rabbit), LD50 = 12.87 g/kg
- Oral (Rat), LD50 = 4.7 g/kg
- Inhalation (Rat), LC50 = 19,000 ppm / 8 hours

12. ECOLOGICAL INFORMATION

- Do not allow product to contaminate ponds, watercourses, soils or drains. Do NOT dispose of product down the drain.

13. DISPOSAL CONSIDERATIONS

- Product may be disposed of through incineration, if governmental regulations permit. Always contact a licensed, permitted Treatment, Storage and Disposal Facility to assure compliance with all local and state governmental regulations.

14. TRANSPORT INFORMATION

- Proper Shipping Name: Solids Containing Flammable Liquids, n.o.s. (Isopropanol)
- Identification Number: UN3175
- Hazard Class/Division: 4.1 (Flammable Solid)
- Packing Group: II

15. REGULATORY INFORMATION

- This material is listed on the EPA TSCA inventory of chemical substances.
- Hazard Symbol:

F	Highly Flammable
Xi	Irritant
- R Phrases:

R11	Highly flammable
R36	Irritating to eyes
R67	Vapors may cause drowsiness and dizziness.
- S Phrases:

S2	Keep out of reach of children
S7	Keep container tightly closed
S16	Keep away from sources of ignition - No smoking
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

16. OTHER INFORMATION

- NFPA Ratings: Health - 1; Flammability - 3; Reactivity - 0.
- WHMIS Classifications:

- Class B: Flammable and Combustible Material, Division 4
 - Class D: Poisonous and Infectious Materials, Division 2
- Date: 03 Aug 2009
- To the best of our knowledge the facts given are correct. However, the information is given without warranty as to its accuracy.