

3. Composition / Information on ingredients

Product is distributed as a single use, presaturated pad in which all the liquid is absorbed into the pad.

Chemical identity:	2-Propanol	65%
Common name:	Isopropyl alcohol, Rubbing alcohol	
Numbers of identity:	CAS. 67-63-0	EINECS. 200-661-7
Chemical identity:	Dodecyltrimethylammonium chloride	1.75%
Common name:	None	
Numbers of identity:	CAS 112-00-5	
Chemical identity:	Ammonium hydroxide	0.25%
Common name:	Ammonia water	
Numbers of identity:	7664-41-7	

Impurities: None of toxicological significance.

4. First-aid measures

P304+313 +341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a physician.

P302+352 IF ON SKIN: Wash with soap and water. Rinse until odor is gone.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do; continue rinsing.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed: Severe eye irritation. Skin irritation.

5. Firefighting measures

Suitable extinguishing equipment:

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Emergency procedures:

Eliminate ignition source. Evacuate unnecessary personnel. Call appropriate fire fighting crew.
Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous decomposition products formed under fire conditions. - Carbon oxides, ammonia, nitrogen oxides.
Use water spray to cool unopened containers. *

6. Accidental release measures

Use personal protective equipment. Avoid breathing, mist or vapors. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas. Be aware of possible accumulating vapors which could form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up
Contain spillage, and then absorb with industrial absorbent, or collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
See also Sec. 13.

7. Handling and storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.
Use explosion-proof equipment. Keep away from sources of ignition - No smoking.
Prevent the build up of electrostatic charge.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Containers which have been opened must be resealed and kept upright to prevent leakage.

8. Exposure controls / personal protection

Information on the system design:

Product is intended for external use only. Stay up wind, out of any spray developed.

Exposure Limits:	NE= Not Established	Reference 29CFR 1910.1000 Table Z-1
Component Name, CAS#		OSHA PEL OSHA STEL
2-Propanol 67-63-0		400 ppm 980 mg/m3 500 ppm 1,225 mg/m3
Dodecyltrimethylammonium chloride 112-00-5	NE	NE
Ammonium hydroxide 7664-41-7	25 ppm	35 ppm as ammonia

Personal protective equipment

Respiratory protection: Where appropriate use a full-face supplied air respirator.
 Hand protection: Rubber gloves.
 Eye protection: Safety glasses with side-shields.
 Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely; flame retardant and antistatic properties are recommended.

Hygiene measures

Wash hands and face before breaks and immediately after handling the product.
 Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance: Clear, colorless liquid
 Odor: Ammonia, alcoholic solvent
 Odor threshold: The highest known value is 22 ppm (Isopropyl alcohol)
 pH-value: Approx. 8-10
 Melting point: no data available
 Freezing Point: no data available
 Initial boiling point: no data available
 Flash point: 22 °C (73 °F) - closed cup (approximate)
 Evaporation rate: no data available
 Flammability (solid, gas): Not applicable
 Explosion limits: Lower: 2% Upper: 12.7% (Isopropyl alcohol)
 Vapor pressure: (highest partial vapor pressure) at 20°C: Not available
 Vapor density: Not available
 Relative density (water=1.00): no data available Auto-ignition temperature: Not available
 Solubility: Totally soluble in water at 20°C Decomposition temperature: Not available
 Partition coefficient: Log Kow = Not applicable to mixture. Viscosity: Like water

10. Stability and reactivity

Chemical stability: No decomposition, if used according to specifications.
 Possibility of hazardous reactions: May form explosive mixture with air.
 Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.
 Materials to avoid: Aluminum, Acids, Oxidizing agents, Halogenated compounds, Acid anhydrides
 Hazardous decomposition products: Carbon oxides, product vapors.

11. Toxicological information

There is no data available for the product.

Routes of Entry: Absorbed through skin. Eye contact. Inhalation.

	2-Propanol
Oral Toxicity LD 50:	5143 mg/kg (Mouse) (Calculated value for 70% in water mixture)
Dermal Toxicity LD 50:	18286 mg/kg (Rabbit) (Calculated value for 70% in water mixture)
Inhalation Toxicity, Vapor, LC50	No data.
Eye Irritation (Rabbit)	No data.
Dermal Irritation (Rabbit)	No data.

Chronic Effects on Humans:

No component listed by NTP, IARC, OSHA or ACGIH as a suspect or potential carcinogen.
 California Prop. 65 chemicals: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Contains material which may cause damage to the following organs: kidneys, liver, CNS,

Signs and Symptoms of Exposure:

Central nervous system depression, prolonged or repeated exposure can cause:, nausea, dizziness, narcosis, drowsiness,

