

Material Safety Data Sheet

Product Name : STERIJET PLUS

MSDS No. : MSDS/ FZDS05/01

Version No.: 01

Effective Date: 01/05/2015

Ref. SOP: SOP/QA/020/02

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1. Identity of Material

Product Name	2-Propanol, 1-Propanol and Mecetronium Ethyl Sulphate Solution	
Trade Name	STERIJET PLUS	
Formula	Label: Each 100 gms. contains: 2-Propanol I.P. : 45 gms. 1-Propanol : 30 gms. Ethyl-hexadecyl-dimethyl ammonium-ethylsulphate (Mecetronium Ethyl Sulphate) : 0.2 gms. Category : Surface adherence & Antimicrobial Class: Not available. CAS Number: Not assigned for product.	UN Number: UN 1987
Regulated Identification	Shipping Name : 2-propanol, 1-Propanol and Mecetronium Ethyl Sulphate Solution Codes/ Label: 3 / Dangerous Liquid.	HAZCHEM CODE : 3[Y] E
	Hazardous Waste: Not available. Identification Number: Not available.	
Sr.No.	Ingredients	CAS Number
1.	2-Propanol	67-63-0
2.	1-Propanol	71-23-8
3.	Ethyl-hexadecyl-dimethyl ammonium-ethylsulphate (Mecetronium Ethyl Sulphate)	3006-10-8

2. Physical and Chemical Properties

Physical State: Liquid	Boiling point in ° C: 83° C	Vapour Pressure: 6 kPa (50°C)
Appearance: Light blue coloured clear solution	Melting/Freezing Point in °C.: Not available.	Evaporation rate: Not available.
Other Corrosivity: Not available.	Specific Gravity: Not available.	pH : 5.5 to 6.8

3. Fire and Explosive Hazard Data

Explosion/ Flammability:	Flash point (deg.) : 23 °C	LEL: Not available.	Auto ignition Temperature °C: 430°C
		UEL: Not available.	TDG Flammability (classification): 3

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4. Reactivity Hazards

	IMPACT: Not available.	Hazardous Combustion Products: Not available.
Stability: The product is stable.	Static Discharge: Not available.	Hazardous Decomposition Products: Not available.
	Reactivity: No decomposition if stored and applied as directed.	Conditions to avoid: Heat. Strong sunlight for prolonged periods.

(Hazardous Polymerisation)	May not occur
Incompatibility	None

5. Health Hazard Data

Routes of Entry: Inhalation, skin, eye contact and ingestion.

Effects of Exposure/symptoms: Not available.

LD 50 (in rat) orally: 13.300 mg/kg

Permissible Exposure ppm mg/cu.m: Not available.	Short term Exposure Limit (STEL) ppm mg/cu/m: Not available.
Odour Threshold Limit pp mg/ cu.m: Not available. Value (TI .V) of Aogih: Not available.	
<p>Emergency Treatment: Eye Contact: Flush eyes with water for 15 minutes. If eye irritation persists, seek medical attention.</p> <p>Ingestion: Do not induce vomiting. Call a physician or poison control centre immediately.</p> <p>Inhalation: Move to fresh air immediately. If experiencing breathing difficulty, seek medical attention.</p> <p>Skin: In case of skin contact, flush skin with plenty of water for at least 15 minutes.</p>	

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6. Hazard Specification

NFPA Hazard signal	Health	Flammability	Reactivity	Special
Known hazards	-	3	-	-
Combustible Liquid Flammable Material	-	-	-	-
Prophoric Material	-	-	-	-
Explosive Material	-	-	-	-
Unstable Material	-	-	-	-

7. Safe Usage Data

Ventilation	General Local Exhaust
Equipment Required	Eyes: Safety glasses with side shields. Respiratory: Vapour respirator. Gloves : Protective Clothing: Protective
Precautions	Handling: Keep containers securely sealed. Storage: Store in original containers in approved flame-proof area. No smoking, naked lights, heat or ignition sources. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. Keep containers securely sealed. Store away from incompatible materials in a cool, dry well ventilated area. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storing and handling recommendations. Store in cool place.

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8. Emergency Response Data

Equipment required	Fire Extinguish Media: Water spray or fog, Alcohol-resistant Foam, Dry chemical powder, Carbon dioxide.
	Special Procedures: Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed.
	Use water delivered as a fine spray to control the fire and cool adjacent Avoid spraying water onto liquid pools. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 500 metres in all directions.
	Unusual Hazards: Liquid and vapour are flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion / decomposition with violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO).Decomposition products include chloroaniline.
Exposure (Inhalation, skin, and eye contacts ingestion)	First Aid Measure: Inhalation: Remove from exposure. Restore breathing. Keep warm and quite get medical attention. Skin: Wash affected area thoroughly with soap and water. If irritation persist. Get medical attention. Eyes: Flush with large amounts of water for 15miutes. Get medical attention. Ingestion: Do not induce vomiting drink copious amounts of milk. Get medical attention.
Spills	Steps to be taken: Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.

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9. Additional Information

DISCLAIMER: Information contained in this MSDS is believed to be reliable but no representation; guarantee or warranties of any kind are made us to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/seller to ensure that the information contain in the MSDS is relevant to the product manufactured/ handled or sold by him as the case may be .The TCPL makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

10. Additional Information

References:

- MSDS format as per Gujarat factories rules, 1963, Schedule-5, Rule 68-J.
- www.Hazard.com, www.sciencelab.com.
- Fire & Explosion hazards handbook of industrial chemicals.

11. Manufactures Data

Firms Name: TORREL COS. PVT. LTD.

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