

Material Safety Data Sheet

Product Name : TORCILOL RAPID

MSDS No. : MSDS/FZDT02/02

Version No.: 02

Effective Date: 30/09/2011

Ref. SOP: SOP/QA/020/02

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1. Identity of Material

Product Name	Solution of 2- Propanol (70%)	
Trade Name	TORCILOL RAPID	
Formula	Label: 2- Propanol I.P. 70 gms Aqueous Base Q.S. Category : Surface and Equipment Disinfectant Class : Not available CAS Number: Not assigned for the product.	UN Number : 1219
Regulated Identification	Shipping Name : Isopropanol Codes/ Label : Flammable liquid. / 3	HAZCHEM CODE : 2[S] 2
	Hazardous Waste : Not available Identification Number : Not available	
Sr.No.	Ingredients	CAS Number
1.	2- Propanol	67-63-0
2.	Water	7732-18-5

2. Physical and Chemical Properties

Physical State : Liquid	Boiling point in degree C: Not available	Vapour Pressure of 25 degree c : Not available
Appearance : Clear colourless transparent solution	Melting/Freezing Point in degree C Not available	Evaporation rate at 30 degree C : Not available
Other Corrosivity : Not available	Specific Gravity : Not available	pH : 7.0 to 9.0

3. Fire and Explosive Hazard Data

Explosion/Flammability Not available	Flash point (deg.) Flash point (deg.) 70 ⁰ F (Open cup)	LEL : 2.0	Auto ignition temperature : Not available
		UEL : 12.0	TDG Flammability (classification) : 3

4. Reactivity Hazards

	IMPACT : Heat and sunlight	Hazardous Combustion Products: Not available.
Stability: Stable under ordinary conditions.	Static Discharge : Sensitive	Hazardous Decomposition Products: On heating it produce carbon dioxide and carbon monoxide, nitrogen oxides, ammonia
	Reactivity: Not available.	Conditions to avoid: Heat and sunlight.

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Hazardous Polymerisation :	May not occur
Compatibility	Strong oxidizers, acetaldehydes, acids, chlorine ethylene oxide, hydrogen-palladium combination, potassium tert- but oxide, hypochlorus acid, isocynates, nitro form, phosgene, aluminium, oleum & perchloric acid.

5. Health Hazard Data

Routes of Entry : Inhalation, Ingestion, skin And eye contact

Effects of Exposure/symptoms: Inhalation of vapours irritates the respiratory tract. Overexposure has a narcotic effect producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness & possibly death. May cause irritation to skin and eyes with redness & pain.

LD 50 (in rat) (oral): Not available

Permissible Exposure mg/cu.m : 400 ppm	Short term Exposure Limit (STEL) mg/cu/m : 400ppm
Odour Threshold Limit pp mg/ cu.m : 43 ppm	
Value (TI .V) of Aogih : 200ppm	
Emergency Treatment: Inhalation: Remove the victim from exposure & move to fresh air immediately. Give artificial respirator or oxygen if needed.	
Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Calla physician immediately.	
Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.	
Eyes: Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally.	

6. Hazard Specification

NFPA Hazard signal	Health	Flammability	Reactivity	Special
Known Hazards	1	3	0	-
Combustible Liquid Flammable Material	-	-	-	-
Prophoric Material	-	-	-	-
Explosive Material	-	-	-	-
Unstable Material	-	-	-	-

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7. Safe Usage Data

Ventilation	General / mechanical Local Exhaust
Equipment Required	<p>Eyes : Safety goggles</p> <p>Respiratory: If the exposure limit is exceeded, a full face piece respirator with organic vapour cartridge may be worn up to 50 times the exposure limit.</p> <p>Gloves: Protective.</p> <p>Clothing: Protective clothing, including boots, gloves, lab coat or coveralls to prevent skin.</p> <p>Others (specify): Neoprene & nitrile rubber are recommended materials.</p>
Precautions	<p>Handling: Avoid Heat and Spark during Handling..</p> <p>Storage: Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred.</p>

8. Emergency Response Data

Equipment required	Fire Extinguish Media:	Water spray, dry chemical, alcohol foam, or Carbon dioxide. Water spray may be used to keep fire-exposed containers cool.
	Special Procedures:	In the event of a fire, wear full protective clothing and NISOH approved self-contained breathing apparatus with full –face piece operated in the pressure demand or other positive pressure mode.
	Unusual Hazards:	Above flash point, vapour-air mixtures are explosive within flammable limits noted above. Contact with strong oxidiser may cause fire or explosion.
Exposure (Inhalation, skin, and eye contacts ingestion)	First Aid Measure:	If inhaled, remove the victim to fresh air area. Give artificial respiration or oxygen if required. If eyes and skin affected, wash with plenty of water. Seek medical Aid immediately.
Spills	Steps to be taken:	Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert medical. (e.g. vermiculite, dry send, earth)

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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.

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