BOC
A Member of The Linde Group

SAFETY DATA SHEET

 # 6067

Product Name **UMATTA ANTI-FOG LEN CLEANER WIPES**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	**BOC LIMITED (AUSTRALIA)**
Address	10 Julius Avenue, North Ryde, NSW, AUSTRALIA, 2113
Telephone	131 262, (02) 8874 4400
Fax	132 427 (24 hours)
Emergency	1800 653 572 (24/7) (Australia only)
Web Site	http://www.boc.com.au/
Synonym(s)	6067 - SDS NUMBER • ANTI-FOG LEN CLEANER WIPES • U350 - PRODUCT CODE
Use(s)	LENS CLEANER
SDS Date	08 Jul 2011

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	1219	**DG Class**	3	**Subsidiary Risk(s)**	None Allocated
Packing Group	III	**Hazchem Code**	•2Y		

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
ISOPROPYL ALCOHOL	C3-H8-O	67-63-0	15%
WATER	H2O	7732-18-5	80%
DIPROPYLENE GLYCOL METHYL ETHER	C7-H16-O3	34590-94-8	2%
SODIUM LAURYL SULPHATE	C12-H25-O4-S.Na	151-21-3	2%
ANTI-FOG	Not Available	Not Available	<1%

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation	Due to product form / nature of use, an inhalation hazard is not anticipated.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling.

Fire and Explosion Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Extinguishing Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways.

Hazchem Code •2Y

6. ACCIDENTAL RELEASE MEASURES

Spillage Spillage is considered unlikely.

7. STORAGE AND HANDLING

Storage Store removed from direct sunlight, heat or ignition sources and foodstuffs.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds

Ingredient	Reference	TWA		STEL	
2-(Methoxymethylethoxy) propanol	SWA (AUS)	50 ppm	308 mg/m³	--	--
Isopropyl alcohol	SWA (AUS)	400 ppm	983 mg/m³	500 ppm	1230 mg/m³

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Maintain vapour levels below the recommended exposure standard.

PPE Wear safety glasses. Where an inhalation risk exists, wear: a Full-face Type A (Organic gases and vapours) respirator. With prolonged use, wear: neoprene or nitrile gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	WIPES IMPREGNATED WITH CLEAR LIQUID	**Solubility (water)**	NOT AVAILABLE
Odour	ISOPROPYL ALCOHOL ODOUR	**Specific Gravity**	0.97
pH	NOT AVAILABLE	**% Volatiles**	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	**Flammability**	FLAMMABLE
Vapour Density	NOT AVAILABLE	**Flash Point**	37.8°C
Boiling Point	82°C to 290°C	**Upper Explosion Limit**	NOT AVAILABLE
Melting Point	NOT AVAILABLE	**Lower Explosion Limit**	NOT AVAILABLE
Evaporation Rate	1.25 (n-Butyl acetate = 1)		
Autoignition Temperature	NOT AVAILABLE	**Decomposition Temperature**	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE	**Viscosity**	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended conditions of storage.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to Avoid	Compatible with most commonly used materials.
Hazardous Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.
Hazardous Reactions	Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low toxicity - low irritant. Under normal conditions of use, adverse health effects are not anticipated. May cause sensitisation by skin contact, although rare. Discontinue use if allergic reaction occurs.
Eye	Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness.
Inhalation	Low irritant. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in dizziness, nausea and headache.
Skin	Low irritant. Prolonged or repeated contact may result in mild irritation. Some individuals may experience allergic reaction.
Ingestion	Low toxicity. Ingestion from hand to mouth contamination may result in gastrointestinal irritation and nausea.
Toxicity Data	ISOPROPYL ALCOHOL (67-63-0) LC50 (Inhalation): 16000 ppm/8 hours 16000/8 hours (rat) LCLo (Inhalation): 12000 ppm/8 hours (mouse) LD50 (Ingestion): 3600 mg/kg (mouse) LD50 (Intraperitoneal): 667 mg/kg (rabbit) LD50 (Intravenous): 1088 mg/kg (rat) LD50 (Skin): 12,800 mg/kg (rabbit) LDLo (Ingestion): 3570 mg/kg (human) LDLo (Intravenous): 1024 mg/kg (dog) LDLo (Subcutaneous): 6000 mg/kg (mouse) TDLo (Ingestion): 13 mg/kg (infant) DIPROPYLENE GLYCOL METHYL ETHER (34590-94-8) LD50 (Skin): 10 mL/kg (mouse) TDLo (Ingestion): 5135 mg/kg (rat) SODIUM LAURYL SULPHATE (151-21-3) LC50 (Inhalation): > 3900 mg/kg (rat) LD50 (Ingestion): 1288 mg/kg (rat) LD50 (Intraperitoneal): 210 mg/kg (rat) LD50 (Intravenous): 118 mg/kg (rat) LDLo (Skin): 10 g/kg (rat)

12. ECOLOGICAL INFORMATION

Environment	Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	No special precautions are required for the disposal of this product.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Product Name **UMATTA ANTI-FOG LEN CLEANER WIPES**

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)				
UN No.	1219	**DG Class**	3	**Subsidiary Risk(s)**	None Allocated
Packing Group	III	**Hazchem Code**	•2Y	**GTEPG**	3A1

IATA

Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)				
UN No.	1219	**DG Class**	3	**Subsidiary Risk(s)**	None Allocated
Packing Group	III				

IMDG

Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)				
UN No.	1219	**DG Class**	3	**Subsidiary Risk(s)**	None Allocated
Packing Group	II				

15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:
ACGIH - American Conference of Industrial Hygienists.
ADG - Australian Dangerous Goods.
BEI - Biological Exposure Indice(s).
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EC No - European Community Number.
HSNO - Hazardous Substances and New Organisms.
IARC - International Agency for Research on Cancer.
mg/m³ - Milligrams per Cubic Metre.
NOS - Not Otherwise Specified.
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
STEL - Short Term Exposure Limit.
SWA - Safe Work Australia.
TWA - Time Weighted Average.

HEALTH EFFECTS FROM EXPOSURE:
It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:
The recommendation for protective equipment contained within this ChemAlert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the

availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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End of Report