

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

# 1.1 Product identifier

Product name REFLECTION

Synonym(s) LIBERATO REFLECTION

## 1.2 Uses and uses advised against

Use(s) CLEANING AGENT • WINDOW CLEANER

1300 377 696

## **1.3 Details of the supplier of the product**

# Supplier name LIBERATO BULK CHEMICAL & REPACK SPECIALISTS PTY. LTD.

Address	1 Kalinga Way, Landsdale, WA, 6065, AUSTRALIA
Telephone	1300 377 696
Email	sales@liberato.com.au
Website	http://www.liberato.com.au

## **1.4 Emergency telephone number(s)**

Emergency

# 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS

## 2.2 Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

## 2.3 Other hazards

No information provided.

# 3. COMPOSITION/ INFORMATION ON INGREDIENTS

# 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
AMMONIUM HYDROXIDE	1336-21-6	231-647-6	<5%
WATER	7732-18-5	231-791-2	Remainder
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	10 to 30%

# 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

Еуе	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	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
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.

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First aid facilities Eye wash facilities should be available.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause irritation to the eyes and skin.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve carbon oxides and hydrocarbons when heated to decomposition.

#### 5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. 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.

#### 5.4 Hazchem code

None allocated.

# 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

#### 6.3 Methods of cleaning up

If spilt (bulk), mop up area. CAUTION: Spill site may be slippery.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe 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.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.

#### 7.3 Specific end use(s)

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
ingreatent		ppm	mg/m³	ppm	mg/m³
Ammonia	SWA (AUS)	25	17	35	24

#### **Biological limits**

No biological limit values have been entered for this product.



#### 8.2 Exposure controls

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

#### PPE

Eye / Face	Wear splash-proof goggles.
Hands	Wear PVC or rubber gloves.
Body	When using large quantities or where heavy contamination is likely, wear coveralls.
Respiratory	Not required under normal conditions of use.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance	CLEAR BLUE LIQUID
Odour	SLIGHT AMMONIACAL ODOUR
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	100°C (Approximately)
Melting point	< 0°C
Evaporation rate	AS FOR WATER
рН	10.8 to 11.2
Vapour density	NOT AVAILABLE
Specific gravity	1 (Approximately)
Solubility (water)	SOLUBLE
Vapour pressure	18 mm Hg @ 20°C
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE
9.2 Other information	
% Volatiles	> 60 % (Water)

# **10. STABILITY AND REACTIVITY**

## 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

# 10.2 Chemical stability

Stable under recommended conditions of storage.

#### 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

#### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

## 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid).

## 10.6 Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

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# **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Acute toxicity

#### Information available for the product:

This product is expected to be of low acute toxicity. Under normal conditions of use, adverse health effects are not anticipated.

Information available for the ingredient(s):

Ingredient		Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
AMMONIUM HYDRO	XIDE	350 mg/kg (rat)		
Skin	Not classified as a skin irritant. Contact may cause temporary mild skin irritation. Prolonged or contact may result in drying and defatting of the skin.			on. Prolonged or repeated
Еуе	Not classified as an eye irritant. Contact may cause discomfort, lacrimation and redness.			
Sensitisation	Not classified as causing skin or respiratory sensitisation.			
Mutagenicity	Not classified as a mutagen.			
Carcinogenicity	Not classified as a carcinogen.			
Reproductive	Not classified as a reproductive toxin.			
STOT – single exposure	Not classified as causing organ damage from single exposure.			
STOT – repeated exposure	Not classified as causing organ damage from repeated exposure.			
Aspiration	This product does not preser	nt an aspiration hazard.		

# 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No information provided.

#### 12.2 Persistence and degradability

No information provided.

# 12.3 Bioaccumulative potential

No information provided.

#### 12.4 Mobility in soil

No information provided.

## 12.5 Other adverse effects

No information provided.

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Waste disposal** Reuse where possible. For small amounts, flush to sewer with excess water. Alternatively absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Aquatic life may be threatened and environmental damage may result if large quantities are allowed to enter waterways.

**Legislation** Dispose of in accordance with relevant local legislation.

# 14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None Allocated	None Allocated	None Allocated
14.2 Proper Shipping Name	None Allocated	None Allocated	None Allocated
14.3 Transport Hazard Class	None Allocated	None Allocated	None Allocated
14.4 Packing Group	None Allocated	None Allocated	None Allocated

14.5 Environmental hazards No information provided

#### 14.6 Special precautions for user

Hazchem code None Allocated

# **15. REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classifications	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.
	The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].
Hazard codes	None allocated.
Risk phrases	None allocated.
Safety phrases	None allocated.
Inventory listing(s)	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt.

# **16. OTHER INFORMATION**

Additional information

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this 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.

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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



Abbreviations	ACGIH CAS # CNS EC No. EMS	American Conference of Governmental Industrial Hygienists Chemical Abstract Service number - used to uniquely identify chemical compounds Central Nervous System EC No - European Community Number Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	GHS GTEPG IARC LC50 LD50 mg/m <sup>3</sup> OEL pH STEL STOT-RE STOT-RE STOT-SE	Globally Harmonized System Group Text Emergency Procedure Guide International Agency for Research on Cancer Lethal Concentration, 50% / Median Lethal Concentration Lethal Dose, 50% / Median Lethal Dose Milligrams per Cubic Metre Occupational Exposure Limit relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). Parts Per Million Short-Term Exposure Limit Specific target organ toxicity (repeated exposure) Specific target organ toxicity (single exposure)
	SUSMP SWA TLV TWA	Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia Threshold Limit Value Time Weighted Average
Report status		nt has been compiled by RMT on behalf of the manufacturer, importer or supplier of the erves as their Safety Data Sheet ('SDS').
	It is based of manufacturer, the current sta at the time of	on information concerning the product which has been provided to RMT by the importer or supplier or obtained from third party sources and is believed to represent ate of knowledge as to the appropriate safety and handling precautions for the product f issue. Further clarification regarding any aspect of the product should be obtained he manufacturer, importer or supplier.
	not provide an no liability for	as taken all due care to include accurate and up-to-date information in this SDS, it does ny warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts any loss, injury or damage (including consequential loss) which may be suffered or ny person as a consequence of their reliance on the information contained in this SDS.
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# [End of SDS]

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