

Material Safety Data Sheet

1. IDENTIFICATION OF PREPARATION AND THE COMPANY UNDERTAKING

Product name: Ronacat
Intended use: Polyurethane catalyst
Supplier: Ronacrete (Far East) Ltd.
16/F., 3 Lockhart Road,
Wanchai,
Hong Kong
Telephone: 852-2865 5872
UN number: N/A
Hazchem code: N/A
Class: N/A
Packing group: N/A
Correct shipping name: N/A

2. PHYSICAL PROPERTIES

Appearance and Odour: Clear liquid with pungent odour
Specific gravity: Ca 1
Viscosity: <100cps
% Solids by weight: 100
pH: Basic
Solubility in water: Slightly miscible with water
Boiling point (°C): >300
Flash point (°C): >150
Flammability limits (%): Not Available
Autoignition Temp (°C): >600
Vapour pressure (20 °C): Not Available
Vapour density: Not Available
Melting point (°C): Not Available
Decomposition point (°C): >300
Sublimation point (°C): >300
Evaporation rate: Not applicable

Product name: Ronacat

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS number	Proportion
Aliphatic amines	-	LOW
1,2-benzenedicarboxylic acid	26761-40-0	HIGH

Proportion (% weight/weight): VHIGH >60, HIGH 30 – 60, MED 10 – 29, LOW 1 – 9, VLOW <1

4. FIRST AID MEASURES

Notes to physician: Treat symptomatically. Effects may be delayed. Following exposure the patient should be kept under medical supervision for at least 48 hours.

Ingestion: Rinse mouth with water. Give water to drink. DO NOT induce vomiting. Seek immediate medical assistance.

Inhalation: Remove victim from exposure. Keep warm. Keep at rest until fully recovered. If breathing becomes laboured and patient is cyanotic (blue), ensure airways are clear and have qualified person give oxygen. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical attention.

Skin contact: Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.

Eye contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Urgently seek medical assistance.

5. FIRE FIGHTING MEASURES

Specific hazards: Will emit toxic fumes on burning including those of carbon oxides, nitrogen oxides.

Suitable extinguishing media: Foam, carbon dioxide and chemical powder. Water fog) of if unavailable fine water spray) may be used if no other media is available, and then only in copious quantities.

Required special equipment for fire fighters: Self-contained breathing apparatus.

Product name: Ronacat

Issued 11/12

Page 2 of 5

6. ACCIDENTAL RELEASE MEASURES

For minor spillage:

1. Wear skin and eye protection.
2. Treat spillage with solid media (eg sand, sawdust or chemical binder).
3. Remove and dispose of residues according to local authority regulations.

For major spillage:

1. Clear area of all unprotected personnel
2. Wear full protective equipment including splash suit, approved vapor respirator or air supplied mask, gloves, boots and eye protection.
3. Prevent run off into drains and waterways.
4. Cover with wet soil, wet sand or solid decontaminant.
5. Shovel into open top drums for further decontamination if necessary.
6. Wash down area with excess of a weak acetic acid solution in water.
7. Ventilate the area well before allowing unprotected personnel to re-enter the area.

7. HANDLING AND STORAGE

Storage: Store indoors in a dry, well-ventilated area. Recommended storage temperature 10 – 35°C.

Materials to avoid: Water, alcohols, amines, acids, alkalis, organic compounds containing active hydrogen groups, foodstuffs, oxidizing agents and sources of ignition.

Unsuitable containers: Copper, copper alloys and galvanised surfaces.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National occupational exposure limits:

No values assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

However for the constituent;

Material	TWA		STEL		Notices
	ppm	Mg/m ³	ppm	Mg/m ³	
Aliphatic amines	5 (USA)	24 (UK)	-	-	
1,2-benzenedicarboxylic acid	-	-	-	-	

TWA – the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term exposure limit) – the average airborne concentration over a 15 minute period which not be exceeded at any time during a normal eight hour workday. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Personal protection: Avoid inhalation of fumes, use with local exhaust ventilation or while wearing an approved vapor respirator. Avoid contact with skin. Wear eye protection.

Product name: Ronacat

9. STABILITY AND REACTIVITY

Materials to avoid: Water, alcohols, amines, acids, alkalis, organic compounds containing active hydrogen groups, foodstuffs, oxidizing agents and sources of ignition.

10. TOXICOLOGICAL INFORMATION

Eye contact: Vapour and liquid can cause severe eye irritation, may cause chemical conjunctivitis.

Skin contact: Contact will result in moderate irritation. May cause sensitisation in some individuals. Repeated or prolonged contact may result in allergic contact dermatitis.

Inhalation: Vapour is an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in irritation to eyes, nose, throat and lungs, combined with dryness of the throat, tightness of the chest and difficulty breathing. A respiratory sensitiser. The onset of respiratory symptoms may be delayed for several hours after exposure.

Ingestion: May cause nausea, vomiting and irritation to the gastrointestinal tract.

Long-term effects: No information available

Acute toxicity / Chronic toxicity: No LD50 data available for this product

11. ECOLOGICAL INFORMATION

Some aliphatic amines are expected to dissolve in water but are not expected to bioaccumulate. For soluble components (LC50 >22mg/l 96 hours – fish).

12. DISPOSAL CONSIDERATIONS

Refer to Local authority. Empty containers must be filled with liquid decontaminant and left to stand unsealed for 24 hours. Empty the drums and recycle by through approved reconditioner. Reuse the decontaminant 5 to 10 times.

Product name: Ronacat

Issued 11/12

Page 4 of 5

13. REGULATORY INFORMATION

R-phrases

R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R42 May cause sensitisation by inhalation.

S-phrases

S26 In case of contact with skin, wash immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of soap and water.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

UN No.: N/A
Class-primary: Liquid.
Packing group: N/A
Dangerous Goods Class: N/A
Hazchem code: N/A
Proper Shipping Name: Ronacat

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: N/A
Class-primary: Liquid.
Packing group: N/A
Dangerous Goods Class: N/A
Hazchem code: N/A
Proper Shipping Name: Ronacat

15. OTHER INFORMATION

This MSDS summarises at the date of issue our best knowledge of health and safety hazard information for this product, and in particular how to safely handle and use the product in the workplace. Each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Product name: Ronacat