

Safety Data Sheet

RocX® Spot & Survey Marking Paint

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1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: RocX® Spot & Survey Marking Paint

Product Description: An 'upside down' spraying aerosol paint, RocX® Spot & Survey Marking Paint is ideal for general spray marking applications such as mine site layout, marking trenches, 'dig-blocks', perimeters and even general surveying of drill patterns or areas.

Synonyms

RocX® Spot and Survey Marking Paint 350g - Fluoro Orange
RocX® Spot and Survey Marking Paint 350g - Blue
RocX® Spot and Survey Marking Paint 350g - Fluoro Pink
RocX® Spot and Survey Marking Paint 350g - Green
RocX® Spot and Survey Marking Paint 350g - Red
RocX® Spot and Survey Marking Paint 350g - White

Product Code

RXFO
RXB
RXFP
RXG
RXR
RXW

Recommended use: Line Marking Ink; Paint
Supplier: Dynamics G-Ex Pty Ltd.
ABN: 53 153 273 431
Street Address: 37 Langton Road, GYMPIE, QLD 4570 WA 6105, Australia
For product information, call: +61 7 5482 6649
For 24-hour emergency response, call: Australia - 1800 033 111, New Zealand - 0800 734 607

2. HAZARDS IDENTIFICATION

Classified As Hazardous According To Safe Work Australia Criteria

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Physical Hazards

Aerosols - Flammable: Category 1
Aerosols - Pressurised: Category 1

Health Hazards

Specific Target Organ Toxicity (Single Exposure): Category 3 (Narcotic Effects)
Repeated exposure may cause skin dryness or cracking.

Environmental Hazards

Not classified as an Environmental Hazard

GHS LABEL ELEMENTS

Signal word DANGER

Hazard statements

AUH066 Repeated exposure may cause skin dryness or cracking.
H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
H336 May cause drowsiness or dizziness.



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2. HAZARDS IDENTIFICATION (continued)

Prevention statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

Response statements

- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Storage statements

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

Disposal statements

- P501 Dispose of contents/container in accordance with relevant regulations

OTHER HAZARDS

No information provided.

3. COMPOSITION INFORMATION

Ingredient	CAS Number	EC Number	Content
dimethyl ether	115-10-6	210-871-0	20 to 30%
acetone	67-64-1	200-662-2	13 to 25%
naphtha (petroleum), hydrotreated heavy (<0.1% w/w benzene)	64742-48-9	265-150-3	18 to 24%
titanium dioxide	13463-67-7	236-675-5	7 to 9%
calcium carbonate	471-34-1	207-439-9	3 to 8%
n-butyl acetate	123-86-4	204-658-1	4 to 6%
pigment(s)	-	-	4 to 6%
acrylic resin(s)	-	-	19 to 23%

4. FIRST AID MEASURES

DESCRIPTION OF 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** If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). 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 Poisons 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.
- First aid facilities** Eye wash facilities and safety shower are recommended.

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4. FIRST AID MEASURES (Continued)

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

See Section 11 for more detailed information on health effects and symptoms.

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically

5. FIRE FIGHTING MEASURES

Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and driveways.

Special hazards arising from the substance or mixture

Highly flammable aerosol. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Aerosol may explode at temperatures exceeding 50 °C. Eliminate all ignition sources, including cigarettes, open flames, spark producing switches/tools, heaters, pilot lights, mobile phones, etc when handling. Aerosol cans may explode above 50 °C.

Advice for firefighters

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.

Hazchem Code

2YE

2 Fine Water Spray.

Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

E Evacuation of people in and around the immediate vicinity of the incident should be considered.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible.

Environmental precautions

Prevent product from entering drains and waterways.

Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

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.

Conditions for safe storage, including any incompatibilities

Store in a cool (< 50 °C), dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure aerosol containers/ cans are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection systems.

Specific end uses

No information provided.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Acetone	SWA [AUS]	500	1185	1000	2375
Acetone	SWA [Proposed]	250	594	1000	2375
Butyl Acetate	SWA [Proposed]	50	270	200	950
Calcium carbonate (Limestone, Marble, Whiting)	SWA [AUS]	–	10	–	–
Dimethyl ether	SWA [AUS]	400	760	500	950
Mineral Oil Mist	SWA [AUS]	–	5	–	–
Titanium dioxide (a)	SWA [AUS]	–	10	–	–
n-Butyl acetate	SWA [AUS]	150	713	200	950

Biological limits

Ingredient	Determinant	Sampling Time	BEI
ACETONE	Acetone in urine	End of shift	25 mg/L

Reference: ACGIH Biological Exposure Indices

CONTROL PARAMETERS

Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE

Eye / Face	Wear splash-proof goggles.	
Hands	Wear nitrile or neoprene gloves.	
Body	When using large quantities or where heavy contamination is likely, wear coveralls.	
Respiratory	At high vapour levels, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator	



9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	COLOURED LIQUID (AEROSOL DISPENSED)
Odour	PAINT-LIKE ODOUR
Flammability	HIGHLY FLAMMABLE
Flash point	0 °C
Boiling point	> 60 °C
Melting point	< -20 °C
Evaporation rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Specific gravity	0.97
Solubility (water)	MISCIBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT AVAILABLE
Lower explosion limit	NOT AVAILABLE
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

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10. STABILITY AND REACTIVITY

- Reactivity:** Carefully review all information provided in sections 10.2 to 10.6.
- Chemical stability:** Stable under recommended conditions of storage.
- Possibility of hazardous reactions:** Polymerization is not expected to occur.
- Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources.
- Incompatible materials:** Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources
- Hazardous decomposition products:** May evolve carbon oxides and hydrocarbons when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity: Based on available data, the classification criteria are not met. This product may have the potential to cause adverse health effects if intentionally misused (e.g. deliberately inhaling contents).

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
DIMETHYL ETHER	–	–	308 g/m ³ (rat)
ACETONE	5800 mg/kg (rat)	> 7400 mg/kg (guinea pig, rabbit)	76000 mg/m ³ /4 hours (rat)
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (<0.1% W/W BENZENE)	> 5000 mg/kg (OECD TG 401)	> 2000 mg/kg (OECD TG 402)	> 5610 mg/m ³ (OECD TG 403)
TITANIUM DIOXIDE	5000 mg/kg (rat)	–	3.43 - 6.82 mg/L air (rat)
CALCIUM CARBONATE	> 2000 mg/kg (rat)	> 2000 mg/kg (rat)	> 3.0 mg/L
N-BUTYL ACETATE	10760 mg/kg (rat)	14112 mg/kg (rabbit)	> 21 mg/L/4hrs (rat)

- Skin:** Not classified as an irritant. Contact may result in mild irritation, drying and defatting of the skin, rash and dermatitis
- Eye:** 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. Titanium dioxide is classified as possibly carcinogenic to humans (IARC Group 2B). However, due to product form (ie. liquid) the risk of exposure is greatly reduced.
- Reproductive:** Not classified as a reproductive toxin.
- STOT - single exposure** Over exposure may result in irritation of the nose and throat, coughing and headache. High level exposure may result in nausea, dizziness and drowsiness.
- STOT - repeated exposure** Not classified as causing organ damage from repeated exposure.
- Aspiration** Ingestion is considered unlikely due to product form. However, if liquid component is ingested, aspiration into the lungs may cause chemical pneumonitis and pulmonary oedema.

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12. ECOLOGICAL INFORMATION

Toxicity: No information provided.
Persistence and degradability: No information provided.
Bioaccumulative potential; No information provided.
Mobility in soil: No information provided.
Other adverse effects: No information provided.

13. DISPOSAL CONSIDERATIONS

Waste disposal: For small amounts, absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer/supplier for additional information (if required).
Legislation: Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

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

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
UN Number	1950	1950	1950
Proper Shipping Name	Aerosols	Aerosols	Aerosols
Transport Hazard Class	2.1	2.1	2.1
Packing Group	None allocated	None allocated	None allocated

Environmental Hazards: No information provided.
Special precautions for user: Hazchem Code 2YE
GTEPG 2D1
EMS F-D, S-U



15. REGULATORY INFORMATION

Poison schedule: Classified as a Schedule 5 (S5) 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.
Inventory listings: AUSTRALIA: AICS (Australian Inventory of Chemical Substances)
All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information: AEROSOL CANS may explode at temperatures approaching 50 °C.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective

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16. OTHER INFORMATION (continued)

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: form of product; 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	American Conference of Governmental Industrial Hygienists
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CNS	Central Nervous System
	EC No.	EC No - European Community Number
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	GHS	Globally Harmonized System
	GTEPG	Group Text Emergency Procedure Guide
	IARC	International Agency for Research on Cancer
	LC50	Lethal Concentration, 50% / Median Lethal Concentration
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m ³	Milligrams per Cubic Metre
	OEL	Occupational Exposure Limit
	pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
	ppm	Parts Per Million
	STEL	Short-Term Exposure Limit
	STOT-RE	Specific target organ toxicity (repeated exposure)
	STOT-SE	Specific target organ toxicity (single exposure)
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	SWA	Safe Work Australia
	TLV	Threshold Limit Value
	TWA	Time Weighted Average

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier 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, importer or supplier. 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.