




MATERIAL SAFETY DATA SHEET	C 092 001
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SIGNAL MARKER PAINT

SECTION 1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER			
Product Type: Signal Marker Paint	Date of SDS Preparation: 7 November 2017		
Product Use: Fast drying paint in aerosol form	Proper Shipping Name: Not applicable		
NEW ZEALAND SUPPLIER Name: Cirtex Industries Ltd Address: 366 Ngati Maru Highway, Thames 3578 Phone: 0800 247 839 (CIRTEX)	EMERGENCY CONTACTS Emergency Services (Fire, Ambulance, Police) Dial 111 National Poisons Information Centre 0800 764 766 (0800 POISON) Company Contact 0800 247 839 (CIRTEX)		
SECTION 2. HAZARDS IDENTIFICATION			
This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001 EPA Approval No: Aerosols (Flammable) - HSR002515 Pictograms			
  			
Flammable Irritant Ecotoxic			
Signal Word: DANGER			
HSNO CLASSIFICATION	HAZARD CODE	HAZARD STATEMENT	GHS CATEGORY
2.1.2A	H222	Extremely flammable aerosol	Category 1
6.1E	H303	May be harmful if swallowed	Category 5
6.3B	H316	Causes mild skin irritation	Category 3
6.4A	H319	Causes serious eye irritation	Category 2A
6.8A	H360	May damage fertility to the unborn child	Category 1A
9.1D	H401	Toxic to aquatic life	Category 4
PREVENTION CODE	PREVENTION STATEMENT		
P102	Keep out of reach of children		
P103	Read label before use		
P201	Obtain special instructions before use		
P202	Do not handle until all safety precautions have been read and understood		
P210	Keep away from heat, sparks, open flames or 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		
P264	Wash hands thoroughly after handling.		
P273	Avoid release to the environment.		
P280	Wear protective clothing.		
P281	Use personal protective equipment as required.		

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RESPONSE CODE	RESPONSE STATEMENT
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
STORAGE CODE	STORAGE STATEMENT
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
DISPOSAL CODE	DISPOSAL STATEMENT
P501	Dispose of according to Local Regulations or Authorities

SECTION 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENTS	Wt%	CAS NUMBER.
Acetone	30-60	67-64-1
Petroleum gases, liquefied, sweetened	10-30	68476-86-8
Aromatic hydrocarbons	10-30	63231-51-6
Other non-hazardous ingredients	to 100	Proprietary

SECTION 4. FIRST AID MEASURES

ROUTES OF EXPOSURE:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.

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If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.
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Most important symptoms and effects, both acute and delayed

Exposure can cause respiratory tract and throat irritation, headaches, shortness of breath and symptoms similar to intoxication. Overexposure can produce severe central nervous system depression, coma and respiratory failure. Irritating to eyes, respiratory system and skin, irritating to respiratory system and skin, harmful if inhaled, repeated exposure may cause skin dryness or cracking, vapours may cause drowsiness and dizziness.

SECTION 5. FIRE FIGHTING MEASURES

Hazard Type	Flammable Aerosol. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions.
Hazards from combustion products	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Suitable extinguishing media	In case of fire, use carbon dioxide, dry chemical, foam. Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.
Precautions for firefighters and special protective clothing	If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.
HAZCHEM CODE	2YE

SECTION 6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. All skin areas should be covered. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Take suitable precautions e.g. use of non-sparking equipment to avoid creating sparks or flames which may ignite the spilled material. Leaking gases may form an explosion hazard. Any equipment capable of building an electrostatic charge should be electrically grounded. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services.

SECTION 7. HANDLING AND STORAGE

Precautions for Handling:

- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.

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- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight.
- Do not expose to temperatures exceeding 50 °C.
- Store in a cool (below 30°C), well ventilated area.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA		STEL	
Substance	ppm	mg/m3	ppm	mg/m3
Acetone (bio) [67-64-1]	500	1,185	1,000	2,375

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

PERSONAL PROTECTION EQUIPMENT

Eyes	Tightly fitting safety glasses with side shields. Avoid wearing contact lenses. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
Hands	Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. We suggest that protective clothing be made from the following materials: butyl rubber, Teflon, PE/EVAL, Responder.
Skin	Full cover clothing covering arms and legs.
Respiratory	Usually, no respirator is necessary when using this product.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Aerosol paint in various colours. Dispensed product is a liquid.
Odour	Characteristic odour
Odour Threshold	Not available
pH	Not applicable
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Flammable aerosol
Flammable aerosol	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	Not available
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

SECTION 10. STABILITY AND REACTIVITY

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Store below 30°C, protect from direct sunlight and do not expose to temperatures exceeding 50°C. Keep away from sources of sparks or ignition. Any electrical equipment in the area of this product should be flame proofed. Protect this product from light.

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Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
SECTION 11. TOXICOLOGICAL INFORMATION	
Acute Effects:	
Swallowed	May be harmful if swallowed. This product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.
Dermal	Not applicable.
Inhalation	Short Term Exposure: High vapour pressures may cause drowsiness and dizziness. In addition product is an inhalation irritant. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat. Other symptoms may also become evident, but they should disappear after exposure has ceased. Intentional misuse by deliberately concentrating and inhaling contents of aerosol containers can be harmful or fatal. Long Term Exposure: Vapours may cause drowsiness and dizziness.
Eye	Causes severe irritation to eyes. If sprayed directly in the eye, this product will irritate. If spraying is prolonged, it may cause damage through frostbite.
Skin	Causes mild skin irritation. If sprayed continuously on skin or in eyes, it can cause frostbite.
Chronic Effects:	
Carcinogenicity	Not applicable.
Reproductive Toxicity	May damage fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.
The following data is for acetone: LD50 Oral, Rat 5800mg/kg LD50 Oral, Mouse = 3000mg/kg LD50 Oral, Rabbit = 5340mg/kg LD50 Dermal, Guinea Pig = >9400mg/kg In Delayed (Chronic and subchronic) studies, an 8 week inhalation study in rats showed no significant effects at 19,000ppm 5 days/week, and a 90 day oral toxicity in rats showed a no-observed-effects-level of 100mg/kg/day and a low-observed-effects-level of 500mg/kg/day based on increased liver and kidney weights and nephrotoxicity.	

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SECTION 12. ECOTOXICOLOGICAL INFORMATION

HSNO Classes: 9.1D = Toxic to aquatic life.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

The following data relates to acetone:

BOD: 1.22g O₂/g (5 days)
 Fish: LC50 rainbow trout: 5540mg/L
 LC50 bluegill sunfish: 8300mg/L
 Daphnia: EC50 10mg/L (24-48 hour)
 Bioconcentration factor is 1, suggesting bioconcentration in aquatic organisms is low. This was calculated using an experimental Log Kow value of -0.24
 Octanol/water partition coefficient: 0.58

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Method:

This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable in-house, consider controlled incineration, or contact a specialist waste disposal company. Do not puncture or incinerate aerosol cans, even when empty.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Flammable Aerosol" and that the label also has the flammable Pictogram, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

SECTION 14. TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Road and Rail Transport	
UN No:	1950
Class-primary	2
Subclass	9
Proper Shipping Name:	AEROSOLS
Air Transport	
UN No:	1950
Class-primary	2
Subclass	9
Proper Shipping Name:	AEROSOLS

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Marine Transport	
UN No:	1950
Class-primary	2
Subclass	9
Proper Shipping Name:	AEROSOLS

SECTION 15. REGULATORY INFORMATION

EPA Approval Code: Aerosols (Flammable) – HSR002515
 HSNO Classification: 2.1.2A, 6.1E(oral), 6.3B, 6.4A, 6.8A, 9.1D
 HSNO Controls:
 Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	3000L AWC
Location Certificate	3000L AWC
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	3000L AWC
Emergency Response Plan	300L AWC
Secondary Containment	300L AWC
Restriction of Use	Only use for the intended purpose.

SECTION 16. OTHER INFORMATION

Glossary

AWC	Aggregate Water Capacity.
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LC50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.

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TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd 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 TCC (NZ) have 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, TCC (NZ) Ltd accept 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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