

# Material Safety Data Sheet

Date prepared: Feb 25, 2022

Date revised: N/A (first edition)

## 1. Product Identification

Product Name: Spot & Survey Marking Paint- ALL COLORS  
Trade Name: SPOT MARKING PAINT- ALL COLORS  
Shipping Name: AEROSOLS  
Recommended Use: Aerosol marking paint for inverted use on surfaces prior to surveying, construction and landscaping.  
Supplier: OX TOOLS PTY LTD  
2A Hope St  
Ermington NSW 2115  
Australia  
Phone:  
Fax:

Emergency telephone:

## 2. Hazard(s) Identification

**EMERGENCY OVERVIEW:** Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Contents Under Pressure. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN. Harmful if inhaled. Harmful if swallowed. Causes eye irritation. Use ventilation necessary to keep exposures below recommended exposure limits, if any. Vapor Harmful. Causes Eye, Skin, Nose, and Throat Irritation.

Classification

Symbol(s) of Product



Signal Word

Danger

### GHS HAZARD STATEMENTS

Flammable Aerosol, category 1  
Flammable Liquid, category 1  
Acute Toxicity, Oral, category 5  
Acute Toxicity, Dermal, category 5  
Skin Irritation, category 2  
Eye Irritation, category 2  
Acute Toxicity, Inhalation, category 4  
STOT, single exposure, category 3, RTI  
STOT, single exposure, category 3, NE  
Aspiration Hazard, category 2  
Eye Irritation, category 2B  
Flammable Aerosol, category 1  
Germ Cell Mutagenicity, category 1B

H222 Extremely flammable aerosol.  
H224 Extremely flammable liquid and vapour.  
H303 May be harmful if swallowed.  
H313 May be harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H305 May be harmful if swallowed and enters airways.  
H320 Causes eye irritation.  
H280 Contains gas under pressure; may explode if heated  
H340 May cause genetic defects. Classified as mutagenic Category 1 if one ingredient is present at or above 0.1%. Applies to liquids, solids (w/w units) and gases (v/v). The substance may also have its own exposure limit. Routes of exposure are dependent on ingredient form.

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Carcinogenicity, category 1A

H350 May cause cancer. Classified as carcinogenic Category 1 on the basis of epidemiological and/or animal data. Mixtures are classified as carcinogenic when at least 1 ingredient has been classified as carcinogenic and is present at 0.1% or above. Routes of exposure are dependant on

ingredient form. May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

## GHS LABEL PRECAUTIONARY STATEMENTS

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

## 3. Composition

Substance	CAS Number	% content	GHS Symbols	GHS Statements
BUTYL ACETATE	123-86-4	4.0%~6%	GHS02-GHS07	H226-336
TI DIOXIDE	13463-67-7	7%~9%	N/A	N/A
Acrylic modified resin	BLEND	19%~ 23%	N/A	N/A
Acetone	67-64-1	13%~25%	GHS02-GHS07	H225-319-336
Petroleum ether	64742-48-9	18%~24%	GHS08	H340-350-304
Calcium carbonate	471-34-1	3%~8%	N/A	N/A
Pigment	n/a	4%~6%	N/A	N/A
dimethyl ether	115-10-6	20%~30%	GHS02-GHS04	H220

## 4. First aid measures

Skin contact: Wash thoroughly with soap and water. If irritation persists, seek medical attention.  
Remove contaminated clothing and wash before reuse.

Eye contact: Immediately flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. If irritation persists, repeat flushing. Get medical attention.

Ingestion: Do not induce vomiting. Have conscious person rise out mouth with water, then drink 1 or 2 glass of water. Never give an unconscious person anything to ingest. If vomiting spontaneously occurs, have victim lean forward with head down to avoid breathing in the vomitus (vapors from vomit) into the lungs. Rinse out mouth and administer more water. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal. Get immediate medical attention.

Inhalation: Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.

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## 5. Fire fighting measures

Flashpoint & Method: Diethyl Ether (propellant): -42°C (-41 °F), c.c.

Suitable extinguishing media: Water spray or fog, foam.

Fire Fighting: Keep containers cool and vapors down with water spray. Prevent spill from

entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Do not enter confined fire space without full bunker gear (helmet with faceshield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source.

HAZCHEM CODE: 2[Y]

## 6. Accidental release measures

Spills & Disposal: Immediately extinguish all ignition sources. No flares, smoking, flames or sparks in hazard area. Evacuate all personnel from affected area. Provide sufficient ventilation to prevent build up of a flammable or explosive atmosphere. Use appropriate protective equipment (See Section 8). When accidentally discharged, prevent the product from flowing. Contain spillage with sand or inert absorbent and arrange safe disposal. Absorb in earth or sand, skim on water surface. Collect liquid and absorbent for appropriate disposal through a licensed disposal firm.

## 7. Handling and storage

Work & Hygiene Practices: Wear approved safety glasses when handling. Do not handle damaged or leaking containers. In case of contact with large volumes of product, wash hands with soap and water. Do not eat, drink or smoke when handling product.

Storage & Handling: Do not use in an enclosed environment. Keep away from open flames, sources of heat and energized equipment. Keep out of reach of children. Do not store at or below freezing temperatures. Avoid high temperatures. Keep out of direct sunlight. Keep containers closed when not in use.

Special Precautions: Do not spray on a naked flame or any incandescent material. Do not smoke when using or handling this product. Avoid breathing vapors or spray mists. Avoid prolonged or repeated skin contact.

## 8. Exposure Controls / Personal Protection

Ventilation & Engineering controls: Do not eat, drink, or smoke when handling this product.

Respiratory Protection: None required for normal use but an effective NOISH/MSHS approved respirator should be used at any time when vapor concentrations exceed established standards. Use only protection authorized by 29 CFR § 1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member states, or Australia.

Eye Protection: Safety glasses are recommended.

Hand Protection: None required for normal use.

Body Protection: None required for normal use.

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## 9. Physical and chemical properties

Appearance & Color:	Aerosols, various colors
Odour:	Paint-like odor
pH:	Not applicable
Boiling point:	>60°C
Melting point:	<-20°C
Flashpoint:	Nominally 0°C
Explosive properties:	Not available
Vapour pressure:	Not Available
Relative density:	0.97kg/m <sup>3</sup>
Solubility in water (g/L):	Miscible. Re-dispersible in aromatic solvents or ketones.

## 10. Stability and reactivity

Stability: This product is chemically stable under normal conditions of storage and use.

Conditions to avoid: AVOID high temperatures, direct sunlight and extreme freezing. Avoid exposure to moisture. Which may damage container deterioration and PH, where acidity may damage container integrity. Avoid sudden impacts, which may damage container integrity. Avoid contact with water, acids, high temperatures. Container corrosion may occur with time and damaged containers should be disposed of before any danger is evident.

Hazardous reactions: Liquid contents should be considered generally not reactive.

## 11. Toxicological information

**GENERAL INFORMATION:** Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

### ACETONE:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

### TOXICITY

Oral (man) TDLo: 2857 mg/kg

Oral (rat) LD50: 5800 mg/kg Eye (rabbit): 3.95 mg - SEVERE

Inhalation (human) TCLo: 500 ppm Eye (rabbit): 20mg/24hr - Moderate

Inhalation (man) TCLo: 12000 ppm/4 hr Skin (rabbit): 395mg (open) - Mild

Inhalation (man) TCLo: 10 mg/m<sup>3</sup>/6 hr Skin (rabbit): 500 mg/24hr - Mild

Inhalation (rat) LC50: 50100 mg/m<sup>3</sup>/8 hr

Dermal (rabbit) LD50: 20000 mg/kg

### IRRITATION

Eye (human): 500 ppm - Irritant

### DIMETHYL ETHER:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

### TOXICITY

Inhalation (rat) LC50: 308000 mg/m<sup>3</sup>

### IRRITATION

Nil Reported

## 12. Ecological information

Marine Pollutant: Not Determined

No data for Marx Spot & Survey Marker all colours.

Refer to data for ingredients, which follows:

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## ACETONE:

log Kow: -0.24

Half-life (hr) air: 312-1896

Half-life (hr) H<sub>2</sub>O surface water: 20

Henry's atm m<sup>3</sup> /mol: 3.67E-05

BOD 5 if unstated: 0.31-1.76,46-55%

COD: 1.12-2.07

ThOD: 2.2

BCF: 0.69

Toxicity Fish: LC50(96) 5540-13000mg/L

Toxicity invertebrate: cell mult. inhib. 28-7500mg/L

Bioaccumulation: not sig

Nitrif. inhib.: 75% decr. at 840mg/L

Anaerobic effects: sig degrad

Degradation Biological: sig

processes Abiotic: Rxn OH\*, photodissoc

In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days. The relatively long half-life allows acetone to be transported long distances from its emission source.

Acetone is highly soluble and slightly persistent in water, with a half-life of about 20 hours; it is minimally toxic to aquatic life.

Acetone released to soil volatilises although some may leach into the ground where it rapidly biodegrades.

Acetone does not concentrate in the food chain.

Drinking Water Standard: none available.

Soil Guidelines: none available.

Air Quality Standards: none available.

## DIMETHYL ETHER:

log Kow: 0.1-0.12

Koc: 14

Half-life (hr) air: 528

Half-life (hr) H<sub>2</sub>O surface water: 2.6-30

Henry's atm m<sup>3</sup> /mol: 9.78E-04

BCF: 1.7

Bioaccumulation: not sig

processes Abiotic: RxnOH\*

## 13 Disposal Considerations

The container should be totally discharged and disposed of as hazardous waste. **SEE CONTAINER WARNINGS.** Dispose of in a safe matter, in accordance with local, state, federal and provincial waste regulations. Do not puncture or incinerate/burn even after use.

## 14. Transport information



Labels Required: FLAMMABLE GAS

## HAZCHEM:

UNDG:

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Dangerous Goods 2.1 Subrisk: None  
Class:  
UN Number: 1950 Packing Group: None  
Shipping Name: AEROSOLS

## **Air Transport IATA:**

ICAO/IATA Class: 2.1 ICAO/IATA Subrisk: None  
UN/ID Number: 1950 Packing Group: None  
Special provisions: None  
Shipping Name: AEROSOLS, FLAMMABLE

## **Maritime Transport IMDG:**

IMDG Class: 2.1 IMDG Subrisk: SP63  
UN Number: 1950 Packing Group: None  
EMS Number: F- D, S- U Special provisions: 63 190 277 327 959  
Marine Pollutant: Not Determined  
Shipping Name: AEROSOLS

## 15. Regulatory information

POISONS SCHEDULE: S5

acetone (CAS: 67-64-1) is found on the following regulatory lists;  
Australia Exposure Standards  
Australia High Volume Industrial Chemical List (HVICL)  
Australia Illicit Drug Reagents/Essential Chemicals - Category III  
Australia Inventory of Chemical Substances (AICS)  
Australia National Pollutant Inventory  
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix F (Part 3)  
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 5  
IMO IBC Code Chapter 18: List of products to which the Code does not apply  
IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances  
OECD Representative List of High Production Volume (HPV) Chemicals  
United Nations Convention Against Illicit Traffic in Narcotic Drugs and Psychotropic Substances - Table II  
United Nations List of Precursors and Chemicals Frequently used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control -

dimethyl ether (CAS: 115-10-6) is found on the following regulatory lists;  
Australia Dangerous Goods Code (ADG Code) - Goods Too Dangerous To Be Transported  
Australia Exposure Standards  
Australia Inventory of Chemical Substances (AICS)  
International Council of Chemical Associations (ICCA) - High Production Volume List  
OECD Representative List of High Production Volume (HPV) Chemicals  
continued

## 16. Other Information

This information is accurate to the best of manufacturer's knowledge or obtained from sources believed by manufacturer to be accurate. However, No warranty of any kind is expressed or implied as to the accuracy, completeness, or adequacy of the information obtained herein. Before using any product, read all warnings and directions on the label. The Manufacturer shall not be liable, regardless of fault,

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to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of, or in connection with, the accuracy, completeness, or adequacy of the information obtained herein. It is intended to assist in the normal safe usage of the product.