

# **Dy-Mark Line Marking All Colours Aerosol**

Dy-Mark

Chemwatch: **53-7171** Version No: **4.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 30/10/2015 Print Date: 31/05/2016 Initial Date: Not Available S.GHS.AUS.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### **Product Identifier**

Product name	Dy-Mark Line Marking All Colours Aerosol
Synonyms	41015000 Clear, 41015001 Matt Black, 41015002 Red, 41015003 Blue, 41015004 Green, 41015005 Yellow, 41015006 Orange, 41015011 White, 41015013 Grey, 41015026 F/Orange 500g, 41027511 White Jumbo 750g, 41995002 Red S/Thru, 41995003 Blue S/Thru, 41995005 Yellow S/Thru, 41995011 White S/Thru
Proper shipping name	AEROSOLS
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack
Relevant identified uses	Use according to manufacturer's directions.

### Details of the supplier of the safety data sheet

Registered company name	Dy-Mark
Address	89 Formation Street Wacol QLD 4076 Australia
Telephone	+61 7 3271 2222
Fax	+61 7 3271 2751
Website	Not Available
Email	info@dymark.com.au

### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 403 186 708
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

### HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	3		
Toxicity	2		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	1		4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Aerosols Category 1, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Acute Aquatic Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

### Label elements

GHS label elements





SIGNAL WORD

DANGER

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### Hazard statement(s)

H222	Extremely flammable aerosol.
П222	Externely lian in label across.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H402	Harmful to aquatic life
AUH044	Risk of explosion if heated under confinement

### Supplementary statement(s)

Not Applicable

### Precautionary statement(s) Prevention

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.	
P271	Use only outdoors or in a well-ventilated area.	

### Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

### Precautionary statement(s) Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
1330-20-7	20-55	xylene
Not Available	5-20	pigments determined not to be hazardous
67-64-1	5-15	<u>acetone</u>
Not Available	5-15	resin - proprietary
Not Available	1-12	filler determined not to be hazardous
68476-85-7.	10-20	hydrocarbon propellant
115-10-6	8-10	dimethyl ether

### **SECTION 4 FIRST AID MEASURES**

Description of first aid measures		
Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.	
Inhalation	If aerosols, fumes or combustion products are inhaled:  Remove to fresh air.  Lay patient down. Keep warm and rested.  Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.  If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or	

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pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. ► Avoid giving milk or oils ► Avoid giving alcohol. Ingestion Not considered a normal route of entry. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically

For acute or short term repeated exposures to xvlene:

- Figure 3. Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice

**BIOLOGICAL EXPOSURE INDEX - BEI** 

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Comments Determinant Index Sampling Time End of shift Methylhippu-ric acids in urine 1.5 gm/gm creatinine Last 4 hrs of shift 2 mg/min

#### **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

SMALL FIRE:

· Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog

#### Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### Advice for firefighters

### Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- ▶ Prevent, by any means available, spillage from entering drains or water course.
- Fire/Explosion Hazard
- ▶ Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame.
- Vapour forms an explosive mixture with air.
- Severe explosion hazard, in the form of vapour, when exposed to flame or spark,

Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic material Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

### Minor Spills

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear protective clothing, impervious gloves and safety glasses.
- ▶ Shut off all possible sources of ignition and increase ventilation.
- Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.
  - May be violently or explosively reactive.
- **Major Spills**
- Wear breathing apparatus plus protective gloves.
- Clear area of all unprotected personnel and move upwind.
- Alert Emergency Authority and advise them of the location and nature of hazard.

DO NOT exert excessive pressure on valve: DO NOT attempt to operate damaged valve.

- May be violently or explosively reactive.
- Wear full body clothing with breathing apparatus
- Remove leaking cylinders to a safe place if possible.
- ▶ Release pressure under safe, controlled conditions by opening the valve.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

#### Safe handling

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

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- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

### Other information

- Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can
- Store in original containers in approved flammable liquid storage area.
- ▶ DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- Keep containers securely sealed.

### Conditions for safe storage, including any incompatibilities

#### Suitable container

- Aerosol dispenser.
- ► Check that containers are clearly labelled.

#### Storage incompatibility

▶ Avoid reaction with oxidising agents















Х - Must not be stored together

0 - May be stored together with specific preventions

May be stored together

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	350 mg/m3 / 80 ppm	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	acetone	Acetone	1185 mg/m3 / 500 ppm	2375 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1800 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	dimethyl ether	Dimethyl ether	760 mg/m3 / 400 ppm	950 mg/m3 / 500 ppm	Not Available	Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
xylene	Xylenes	Not Available	Not Available	Not Available
acetone	Acetone	Not Available	Not Available	Not Available
hydrocarbon propellant	Liquified petroleum gas; (L.P.G.)	3,000 ppm	3200 ppm	19000 ppm
dimethyl ether	Methyl ether; (Dimethyl ether)	1,000 ppm	1000 ppm	7200 ppm

Ingredient	Original IDLH	Revised IDLH
xylene	1,000 ppm	900 ppm
pigments determined not to be hazardous	Not Available	Not Available
acetone	20,000 ppm	2,500 [LEL] ppm
resin - proprietary	Not Available	Not Available
filler determined not to be hazardous	Not Available	Not Available
hydrocarbon propellant	19,000 [LEL] ppm	2,000 [LEL] ppm
dimethyl ether	Not Available	Not Available

### **Exposure controls**

CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### Personal protection











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#### Safety glasses with side shields. Chemical goggles. ► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. ▶ Close fitting gas tight goggles Eye and face protection DO NOT wear contact lens ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. Skin protection See Hand protection below ▶ No special equipment needed when handling small quantities. OTHERWISE: ► For potentially moderate exposures: Hands/feet protection Wear general protective gloves, eg. light weight rubber gloves. ► For potentially heavy exposures: ▶ Wear chemical protective gloves, eg. PVC. and safety footwear. **Body protection** See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Overalls. ► Skin cleansing cream. Other protection ► Eyewash unit. ▶ The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton. ▶ Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards. Thermal hazards Not Available

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
BUTYL	С
NEOPRENE	С
##dimethyl	ether

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### Respiratory protection

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	Air-line*	AX-2	AX-PAPR-2 ^
up to 20 x ES	-	AX-3	-
20+ x ES	-	Air-line**	-

<sup>\* -</sup> Continuous-flow; \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Coloured flammable liquid with a characteristic solvent odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	<-18	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available

<sup>^ -</sup> Full-face

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Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	Not Available

#### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination,

There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Inhalation of toxic gases may cause:

- ► Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures;
- respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest;
- ▶ heart: collapse, irregular heartbeats and cardiac arrest;
- gastrointestinal: irritation, ulcers, nausea and vomiting (may be bloody), and abdominal pain.

#### Inhaled

Inhalation hazard is increased at higher temperatures Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination

Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.

Symptoms of asphyxia (suffocation) may include headache, dizziness, shortness of breath, muscular weakness, drowsiness and ringing in the ears. If the asphyxia is allowed to progress, there may be nausea and vomiting, further physical weakness and unconsciousness and, finally, convulsions, coma and death. WARNING: Intentional misuse by concentrating/inhaling contents may be lethal

Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers Xylene is a central nervous system depressant

### Ingestion

Accidental ingestion of the material may be damaging to the health of the individual.

Not normally a hazard due to physical form of product.

Considered an unlikely route of entry in commercial/industrial environments

Not a likely route of entry into the body in commercial or industrial environments. The liquid may produce considerable gastrointestinal discomfort and be harmful or toxic if swallowed.

#### Skin Contact

Skin contact with the material may be harmful; systemic effects may result following absorption. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact

dermatitis which is characterised by redness, swelling and blistering. Spray mist may produce discomfort

Open cuts, abraded or irritated skin should not be exposed to this material

### Eye

There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain

Not considered to be a risk because of the extreme volatility of the gas.

### Chronic

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby.

Principal route of occupational exposure to the gas is by inhalation.

Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.

Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis).

Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]

Dy-Mark Line Marking All	TOXICITY	IRRITATION	
Colours Aerosol	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye (human): 200 ppm irritant	
xylene	Inhalation (rat) LC50: 5000 ppm/4h <sup>[2]</sup>	Eye (rabbit): 5 mg/24h SEVERE	
	Oral (rat) LD50: 4300 mg/kgt <sup>[2]</sup>	Eye (rabbit): 87 mg mild	
		Skin (rabbit):500 mg/24h moderate	

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	Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup> Eye (human): 500 ppm - irritant		00 ppm - irritant		
	Inhalation (rat) LC50: 50.1 mg/L/8 hr <sup>[2]</sup>	Eye (rabbit): 20	mg/24hr -moderate		
acetone	Oral (rat) LD50: 5800 mg/kgE <sup>[2]</sup>	Eye (rabbit): 3.9	5 mg - SEVERE		
		Skin (rabbit): 50	0 mg/24hr - mild		
		Skin (rabbit):39	5mg (open) - mild		
	TOXICITY	IRRITATION			
	Inhalation (mouse) LC50: >15.6-<17.9 mm/l2 h mm/l2="">[1	-			
	Inhalation (mouse) LC50: >15.6-<17.9 mm/l2 h mm/l2="">[1	1			
	Inhalation (mouse) LC50: 410000 ppm2 h <sup>[1]</sup>				
	Inhalation (mouse) LC50: 410000 ppm2 h <sup>[1]</sup>				
	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>				
	Inhalation (rat) LC50: >800000 ppm15 min <sup>[1]</sup>				
hydrocarbon propellant	Inhalation (rat) LC50: 1354.944 mg/L15 min <sup>[1]</sup>	1			
	Inhalation (rat) LC50: 1355.544 http://linkingline	<u>!</u> !			
	Inhalation (rat) LC50: 1333 mg/H3 mini Inhalation (rat) LC50: 1442.738 mg/L15 min <sup>[1]</sup>	<u> </u>			
	Inhalation (rat) LC50: 1442.738 mg/L15 min <sup>[1]</sup>	<u> </u>			
	Inhalation (rat) LC50: 1442.736 mg/L13 min <sup>[1]</sup>	 			
		<u> </u>			
	Inhalation (rat) LC50: 1443 mg/l15 min <sup>[1]</sup>	<u> </u>			
	Inhalation (rat) LC50: 570000 ppm15 min <sup>[1]</sup>	1			
	TOXICITY	IRRITATION			
dimethyl ether	Inhalation (rat) LC50: 309 mg/L/4H <sup>[2]</sup>	Nil reported			
Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances					
	1				
	No significant acute toxicological data identified in literature s	earch.			
	Studies indicate that normal, branched and cyclic paraffins are inversely proportional to the carbon chain length, with little absorptions.	•	· · · · · · · · · · · · · · · · · · ·		
Dy-Mark Line Marking All	n-paraffins may be absorbed to a greater extent that iso- or cy The major classes of hydrocarbons have been shown to be we		act in various species. In many cases, the hydrophobic		
Colours Aerosol	hydrocarbons are ingested in association with dietary lipids.	, ,			
	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.				
	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles,				
		ted exposure and may produce on o	contact skin redness, swelling, the production of vesicles,		
	scaling and thickening of the skin.				
	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing productivitis.	oronounced inflammation. Repeated	or prolonged exposure to irritants may produce		
XYLENE	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing productivitis.  The material may cause skin irritation after prolonged or repeat scaling and thickening of the skin.	oronounced inflammation. Repeated	or prolonged exposure to irritants may produce		
XYLENE	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing productivitis.  The material may cause skin irritation after prolonged or repea	oronounced inflammation. Repeated	or prolonged exposure to irritants may produce		
XYLENE	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing productivitis.  The material may cause skin irritation after prolonged or repeas scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in ar	oronounced inflammation. Repeated ted exposure and may produce on a	or prolonged exposure to irritants may produce		
XYLENE	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing productivitis.  The material may cause skin irritation after prolonged or repeas scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.	oronounced inflammation. Repeated ted exposure and may produce on on the string.	or prolonged exposure to irritants may produce contact skin redness, swelling, the production of vesicles,		
	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing conjunctivitis.  The material may cause skin irritation after prolonged or repea scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in ar Reproductive effector in rats  The material may cause skin irritation after prolonged or repea scaling and thickening of the skin.	oronounced inflammation. Repeated ted exposure and may produce on on the string.	or prolonged exposure to irritants may produce contact skin redness, swelling, the production of vesicles,		
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ACETONE  HYDROCARBON PROPELLANT  Acute Toxicity Skin Irritation/Corrosion Serious Eye	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing conjunctivitis.  The material may cause skin irritation after prolonged or repeal scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in an Reproductive effector in rats  The material may cause skin irritation after prolonged or repeal scaling and thickening of the skin.  for acetone:  The acute toxicity of acetone is low. Acetone is not a skin irritat toxicity of acetone has been examined in mice and rats that we No significant acute toxicological data identified in literature sinhalation of the gas	ted exposure and may produce on one of the description of the descript	contact skin redness, swelling, the production of vesicles, contact skin redness, contact skin redness, swelling, the production of vesicles, contact skin redness, swelling, the production of vesicles, contact skin redness, contact		
ACETONE  HYDROCARBON PROPELLANT  Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing properties of the skin.  The material may cause skin irritation after prolonged or repeat scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in an Reproductive effector in rats  The material may cause skin irritation after prolonged or repeat scaling and thickening of the skin.  for acetone:  The acute toxicity of acetone is low. Acetone is not a skin irritat toxicity of acetone has been examined in mice and rats that we No significant acute toxicological data identified in literature s inhalation of the gas	ted exposure and may produce on one of the description of the descript	contact skin redness, swelling, the production of vesicles, contact skin. Acetone is an eye irritant. The subchronic ing water and again in rats treated by oral gavage.		
ACETONE  HYDROCARBON PROPELLANT  Acute Toxicity Skin Irritation/Corrosion Serious Eye	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing conjunctivitis.  The material may cause skin irritation after prolonged or repeal scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in an Reproductive effector in rats  The material may cause skin irritation after prolonged or repeal scaling and thickening of the skin.  for acetone:  The acute toxicity of acetone is low. Acetone is not a skin irritat toxicity of acetone has been examined in mice and rats that we No significant acute toxicological data identified in literature sinhalation of the gas	ted exposure and may produce on one of the description of the descript	contact skin redness, swelling, the production of vesicles, contact skin redness, contact skin redness, swelling, the production of vesicles, contact skin redness, swelling, the production of vesicles, contact skin redness, contact		
ACETONE  HYDROCARBON PROPELLANT  Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin	scaling and thickening of the skin.  The material may produce severe irritation to the eye causing a conjunctivitis.  The material may cause skin irritation after prolonged or repeat scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in an Reproductive effector in rats  The material may cause skin irritation after prolonged or repeat scaling and thickening of the skin.  for acetone:  The acute toxicity of acetone is low. Acetone is not a skin irritat toxicity of acetone has been examined in mice and rats that we No significant acute toxicological data identified in literature s inhalation of the gas	ted exposure and may produce on one of the exposure and may produce on the exposure administered acetone in the drink earch.  Carcinogenicity  Reproductivity  STOT - Single Exposure	contact skin redness, swelling, the production of vesicles, contact skin. Acetone is an eye irritant. The subchronic ing water and again in rats treated by oral gavage.		

Data required to make classification available

Data Not Available to make classification

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#### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
xylene	EC50	24	Crustacea	0.711mg/L	4
xylene	LC50	96	Fish	0.0013404mg/L	4
xylene	EC50	48	Crustacea	>3.4mg/L	2
xylene	EC50	72	Algae or other aquatic plants	4.6mg/L	2
xylene	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
acetone	EC50	384	Crustacea	97.013mg/L	3
acetone	EC50	48	Crustacea	>100mg/L	4
acetone	EC50	96	Algae or other aquatic plants	20.565mg/L	4
acetone	LC50	96	Fish	>100mg/L	4
acetone	NOEC	96	Algae or other aquatic plants	4.950mg/L	4
hydrocarbon propellant	LC50	96	Fish	24.11mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	7.71mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	8.57mg/L	2
hydrocarbon propellant	LC50	96	Fish	24.11mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	7.71mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	8.57mg/L	2
dimethyl ether	NOEC	48	Crustacea	>4000mg/L	1
dimethyl ether	EC50	384	Crustacea	46.027mg/L	3
dimethyl ether	LC50	96	Fish	200.592mg/L	3
dimethyl ether	EC50	48	Crustacea	>4400.0mg/L	2
dimethyl ether	EC50	96	Algae or other aquatic plants	154.917mg/L	2
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Harmful to aquatic organisms.

For Petroleum Hydrocarbon Gases:

Environmental Fate: Petroleum hydrocarbon gases are primarily produced in petroleum refineries, or in gas plants that separate natural gas and natural gas liquids. This category contains 99 petroleum hydrocarbon gas substances, the majority of which never reach the consumer. Petroleum hydrocarbon gases do not contain inorganic compounds, (e.g. hydrogen sulfide, ammonia, and carbon monoxide), other than asphyxiant gases; the low molecular weight hydrocarbon molecules are primarily responsible for the hazard associated with these gases.

Atmospheric Fate: All components of these gases will evaporate to the air where interaction with hydroxyl radicals is an important fate process.

For Xylenes:

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process. Soil - Xylenes are expected to have moderate mobility in soil evaporating rapidly from soil surfaces. The extent of the degradation is expected to depend on its concentration, residence time in the soil, the nature of the soil, and whether resident microbial populations have been acclimated.

### DO NOT discharge into sewer or waterways

For Acetone: log Kow : -0.24;

log row. -0.24, Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55% COD: 1.12-2.07 ThOD: 2.2BCF: 0.69.

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. 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.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
dimethyl ether	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
acetone	LOW (BCF = 0.69)
dimethyl ether	LOW (LogKOW = 0.1)

### Mobility in soil

Ingredient	Mobility
acetone	HIGH (KOC = 1.981)
dimethyl ether	HIGH (KOC = 1.292)

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### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ► Reuse
- ► Recycling
- ► Disposal (if all else fails)

# Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.
- Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- ▶ DO NOT incinerate or puncture aerosol cans.

### **SECTION 14 TRANSPORT INFORMATION**

#### **Labels Required**



Marine Pollutant	NO
HAZCHEM	Not Applicable

### Land transport (ADG)

UN number	1950
Packing group	Not Applicable
UN proper shipping name	AEROSOLS
Environmental hazard	Not Applicable
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable
Special precautions for user	Special provisions 63 190 277 327 344  Limited quantity 1000ml

### Air transport (ICAO-IATA / DGR)

UN number	1950	
Packing group	Not Applicable	
UN proper shipping name	Aerosols	
Environmental hazard	Not Applicable	
Transport hazard class(es)	ICAO/IATA Class 2.1  ICAO / IATA Subrisk Not Applicable  ERG Code 10L	
	Special provisions	A145A167A802; A1A145A167A802
	Cargo Only Packing Instructions	203
Special precautions for user	Cargo Only Maximum Qty / Pack	150 kg
	Passenger and Cargo Packing Instructions	203; Forbidden
	Passenger and Cargo Maximum Qty / Pack	75 kg; Forbidden
	Passenger and Cargo Limited Quantity Packing Instructions	Y203; Forbidden
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G; Forbidden

### Sea transport (IMDG-Code / GGVSee)

UN number	1950
Packing group	Not Applicable
UN proper shipping name	AEROSOLS
Environmental hazard	Not Applicable

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Transport hazard class(es)	IMDG Class 2.1  IMDG Subrisk Not Applicable
Special precautions for user	EMS Number F-D, S-U Special provisions 63 190 277 327 344 959 Limited Quantities 1000ml

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

## $\parallel$ XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

#### ACETONE(67-64-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

#### HYDROCARBON PROPELLANT(68476-85-7.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List

Passenger and Cargo Aircraft

#### DIMETHYL ETHER(115-10-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List

Passenger and Cargo Aircraft

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (acetone; xylene; dimethyl ether; hydrocarbon propellant)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (hydrocarbon propellant)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

#### Other information

## Ingredients with multiple cas numbers

Name	CAS No
hydrocarbon propellant	68476-85-7., 68476-86-8.
dimethyl ether	115-10-6, 157621-61-9

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible Concentration-Short Term Exposure Limit}$ 

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

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TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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