

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	YIELD AEROSOL
Manufacturer's Product Code	5068
Major Recommended Uses	Penetrant, Release Agent, Lubricant
Other Names	Solvent blend
Supplier's Details	Mega Distributors P.O Box 101085 North Shore Mail Centre Phone: +64 9 473 6505
Date of Issue	December 2016

SECTION 2 – HAZARDS IDENTIFICATION

Colour	Amber Brown
Physical State	Liquid
Odour	Petroleum distillates
GHS Classification	Physical Hazards Flammable Aerosols Category 2 Gases under pressure Compressed Gas Health Hazard Aspiration Toxicity Category 1 Serious Eye Damage/Eye Irritation Category 2A Specific target organ systemic toxicity (single exposure) Category 3 Skin Sensitization Category 1
Labelling	
Signal Word	Danger
Hazard Statements H223 - Flammable aerosol H280 - Contains gas under pressure; may explode if heated H304 - May be fatal if swallowed and enters airways H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness	Precautionary Statements P210 - Keep away from heat, sparks, open flames or hot surfaces. 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 P264 - Wash face, hands and any exposed skin thoroughly after handling P280 - Wear protective gloves, protective clothing and eye protection. P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C P301 + P310 - IF SWALLOWED: Immediately call a physician P331 - DO NOT induce vomiting P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists, get medical attention. P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents and container in accordance with applicable local regulations.

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	50-60
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	64742-53-6	15-25
Ethyl acetate	141-78-6	10-20
Butane	106-97-8	0-10
Propane	74-98-6	0-10

SECTION 4 – FIRST AID MEASURES

General advice	Avoid breathing vapours, mist, or gas. Avoid contact with skin, eyes and clothing.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Advice to Doctor	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point	> 27 °C
Method	Seta closed cup
Auto ignition Temperature	No information available.
Flammability Limits in Air %	Solvent mixture.
Upper	11.5
Lower	0.5
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Specific hazards arising from the chemical	Solvent vapours are heavier than air and may spread along floors. Vapours may ignite and explode. Flame extension: >24 inches / >61 cm and Burn back: >3 inch / >7.5 cm. Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, Safe Work, Australia (approved or equivalent) and full protective gear.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system..
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material.
Neutralizing Agent	Not applicable.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Keep away from heat and sources of ignition Avoid breathing vapours or mists Avoid contact with skin, eyes and clothing
Conditions for Safe Storage	Keep away from open flames, hot surfaces and sources of ignition
Storage Temperature	Minimum 2 °C Maximum 49 °C
Storage Conditions	Indoor X Outdoor Heated Refrigerated

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component	ES-TWA	ISHL	ACGIH TLV
Petroleum distillates, hydro treated light naphthenic (<3% DMSO extractable)		No data available	5 mg/m³ as oil mist
Ethyl acetate	STEL: 400 ppm STEL: 1440 mg/m³ TWA: 200 ppm TWA: 720 mg/m³	ACL: 200 ppm	TWA: 400 ppm
Butane	TWA: 800 ppm TWA: 1900 mg/m³	No data available	STEL: 1000 ppm
Propane		No data available	TWA: 1000 ppm
Engineering Measures	Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.		
Personal Protective Equipment			
Respiratory Protection	In case of inadequate ventilation wear respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators		
Eye/Face Protection	Safety glasses with side-shields.		
Hand Protection	Protective gloves		
Skin Protection	Wear suitable protective clothing, Impervious gloves.		
General Hygiene Considerations	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.		

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Amber Brown
Odour	Petroleum distillates
Specific Gravity	0.840
Boiling Point	71°C
Freezing Point	No information available
Vapour Pressure	1547 mm HG @ 21°C
Vapour Density	1.7
Flash Point	>27°C
Melting Point/Range	No data available
Solubility	Negligible
pH	Not applicable
Viscosity	Non viscous
Odour Threshold	No data available
Evaporation Rate	24.77 (Butyl acetate=1)
Method	Seta closed cup
Auto ignition Temperature	No information available
Per Cent Volatile (Volume)	0%
VOC Content (%)	41.901
VOC Content (g/L)	0

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames, and sparks.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Amines, Nitric acid.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sulphur compounds, Hydrogen sulphide and smoke, Aldehydes.
Possibility of Hazardous Reactions	None under normal processing

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SECTION 11 – TOXICOLOGICAL INFORMATION

PRODUCT MIXTURE INFORMATION	
Principle Route of Exposure	Inhalation, Skin contact, Eye contact.
The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):	
Oral LD50	37,467.00 mg/kg
Dermal LD50	5,672.00 mg/kg
Inhalation LC50	
Gas	99,999.00
Mist	3.00
Vapour	15,855.00
Primary Routes of Entry	Skin contact, Skin Absorption.
MAIN SYMPTOMS	
Acute Effects	
Eyes	Causes eye irritation.
Skin	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Inhalation	May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.
Chronic Effects	Repeated and prolonged exposure to solvents may cause brain and nervous system damage, Liver and kidney injuries may occur.
Target Organ Effects	Central nervous system, Cardiovascular system, Respiratory system, Liver, Kidney.
Aggravated Medical Conditions	Respiratory system, Skin disorders, Neurological disorders, Liver disorders, Kidney disorders.

COMPONENT INFORMATION					
Acute Toxicity					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Solvent naphtha (petroleum), medium aliphatic	> 5000 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h	No data available	No data available
Ethyl acetate	> 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit)		No data available	Eyes,CNS, respiratory system
Butane		Not applicable	= 658 g/m3 (Rat) 4 h	No data available	No data available
Propane		Not applicable	= 658 mg/L (Rat) 4 h	No data available	No data available

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COMPONENT INFORMATION					
Chronic Toxicity					
Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Ethyl acetate	No data available	Not applicable	No data available	No data available	Skin Eyes Respiratory system
Butane	No data available	Not applicable	No data available	No data available	Central nervous system
Propane	No data available	Not applicable	No data available	No data available	Central nervous system

Carcinogenicity There are no known carcinogenic chemicals in this product.

SECTION 12 – ECOLOGICAL INFORMATION

Product Information No data available					
Component Information					
Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	log Pow
Solvent naphtha (petroleum), medium aliphatic	EC50 = 450 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 800 mg/L Pimephales promelas 96 h	No data available	100: 48 h Daphnia magna mg/L EC50	Not applicable
Petroleum distillates, hydro treated light naphthenic (<3% DMSO extractable)	Not applicable	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	No data available	1000: 48 h Daphnia magna mg/L EC50	Not applicable
Ethyl acetate	Not applicable	LC50 220 - 250 mg/L Pimephales promelas 96 h LC50 = 484 mg/L Oncorhynchus mykiss 96 h LC50 352 - 500 mg/L Oncorhynchus mykiss 96 h	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	560: 48 h Daphnia magna mg/L EC50 Static	0.6
Butane	Not applicable	Oral	No data available	Not applicable	2.89
Propane	Not applicable	Oral	No data available	Not applicable	2.3

Eco toxicity effects No information available
 Persistence and Degradability No information available
 Bioaccumulation No information available
 Mobility No information available

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SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal Container Disposal	Dispose of in accordance with local regulations. Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.
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SECTION 14 – TRANSPORT INFORMATION

ADG 7	
UN-No	UN1950
Proper Shipping Name	Aerosols, flammable
Hazard Class	2.1
Hazchem Code	2YE
Shipping Description	UN1950, Aerosols, flammable, 2.1, LTD QTY

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