



Safety Data Sheet YIELD AEROSOL

Supersedes Date Initial Release

Issuing Date DEC 2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name YIELD AEROSOL

Recommended use Penetrant, Release Agent, Lubricant

Manufacturer, importer, supplier

NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION

5-9, Ralph Street, Alexandria, NSW -2015

Telephone inquiry

+61-2-96690260

Emergency Telephone Number

+61-2-96690237 / 0401718972

Fax number

+61-2-96931562

Product Code 5068

Chemical nature Solvent blend

Distributor

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2. HAZARD IDENTIFICATION

Colour Amber Brown

Physical state liquid

Odour Petroleum distillates

Mixture or Pure Substance: Mixture

GHS

Classification

Physical Hazards

Flammable Aerosols

Gases under pressure

Category 2

Compressed Gas

Health Hazard

Aspiration Toxicity

Serious Eye Damage/Eye Irritation

Specific target organ systemic toxicity (single exposure)

Category 1

Category 2A

Category 3

Other Hazards

None

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.

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
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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.
Notes to physician	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

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
Suitable Extinguishing Media		Lower:	0.5
Water spray. Carbon dioxide (CO2). 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 Fire-fighters			
As in any fire, wear self-contained breathing apparatus pressure-demand, Safe Work, Australia (approved or equivalent) and full protective gear.			

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.

7. HANDLING AND STORAGE

Handling	Keep away from heat and sources of ignition Avoid breathing vapours or mists Avoid contact with skin, eyes and clothing			
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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ES-TWA	ISHL	ACGIH TLV	Petroleum distillates, hydro treated light naphthenic (<3% DMSO extractable)		no data available	5 mg/m ³ as oil mist
Ethyl acetate	STEL: 400 ppm STEL: 1440 mg/m ³ TWA: 200 ppm TWA: 720 mg/m ³	ACL: 200 ppm	TWA: 400 ppm	Butane	TWA: 800 ppm TWA: 1900 mg/m ³	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Chemical Stability

Stable. Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames, and sparks.

Incompatible Products

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.

11. TOXICOLOGICAL INFORMATION

Product Information

Principle Route of Exposure Inhalation, Skin contact, Eye contact.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 37,467.00

Dermal LD50 5,672.00

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	Oral LD50	Dermal LD50	Inhalation LC50	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	no data available
Butane		Not applicable	= 658 g/m ³ (Rat) 4 h	no data available	no data available
Propane		Not applicable	= 658 mg/L (Rat) 4 h	no data available	no data available

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.

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	N/A

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	N/A
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 15 min 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
Bioaccumulation No information available
Mobility No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal 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.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Australia
POISON SCHEDULE None

16. OTHER INFORMATION

Prepared By Arvind Rane
Super cedes Date Initial Release
Issuing Date DEC 2016
Reason for Revision GHS -SDS FORMAT
List of References. No information available.

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