Safety Data Sheet YIELD AEROSOL

Supersedes Date JUNE 2020 **Issuing Date JUNE 2024**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name YIELD AEROSOL
Product Code 5068
Recommended use Penetrant, Release Agent, Lubricant
Chemical nature Solvent blend

Manufacturer, importer, supplier
NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION
N2, 391, PARK ROAD, REGENTS PARK, NSW 2143
Telephone inquiry
+61-2-96690260
Emergency Telephone Number
+61-2-96690237 / 0401718972
Fax number
+61-2-96931562

Distributor
NCH AUSTRALIA PTY LTD
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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	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

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

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 **Lower:** 0.5

Suitable Extinguishing Media

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
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Reason for Revision UPDATED SDS
List of References. No information available.

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