

## Safety Data Sheet **DAVIDSON'S FIXATIVE BULK**

SDS no. 6P5VXLBP • Version 1.0 • Supersedes: 3CHQ6 • Date of issue: 2026-08-29

### SECTION 1: Identification

#### GHS Product identifier

Product name DAVIDSON'S FIXATIVE BULK

Product number ADFIX

#### Recommended use of the chemical and restrictions on use

Laboratory reagent.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### National contact

Name Australian Biostain Pty Ltd  
Address 16 Shipwright Road  
5016 Largs North SA  
Australia

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

##### GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, dermal, Cat. 4
- Acute toxicity, inhalation, Cat. 3
- Acute toxicity, oral, Cat. 4
- Carcinogenicity, Cat. 1
- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1A

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- Skin sensitizer, Cat. 1
- Specific target organ toxicity following single exposure, Cat. 2
- Flammable liquids, Cat. 2

#### GHS label elements, including precautionary statements

##### Pictograms



##### Signal word

**DANGER**

##### Hazard statement(s)

|      |                                         |
|------|-----------------------------------------|
| H225 | Highly flammable liquid and vapor       |
| H302 | Harmful if swallowed                    |
| H312 | Harmful in contact with skin            |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction     |
| H331 | Toxic if inhaled                        |
| H350 | May cause cancer                        |
| H371 | May cause damage to organs              |

##### Precautionary statement(s)

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P201           | Obtain special instructions before use.                                                                                          |
| P202           | Do not handle until all safety precautions have been read and understood.                                                        |
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P233           | Keep container tightly closed.                                                                                                   |
| P240           | Ground and bond container and receiving equipment.                                                                               |
| P241           | Use explosion-proof [electrical/ventilating/lighting/...] equipment.                                                             |
| P242           | Use non-sparking tools.                                                                                                          |
| P243           | Take action to prevent static discharges.                                                                                        |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P271           | Use only outdoors or in a well-ventilated area.                                                                                  |
| P272           | Contaminated work clothing should not be allowed out of the workplace.                                                           |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P284           | [In case of inadequate ventilation] wear respiratory protection.                                                                 |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| 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/doctor/physician if you feel unwell.                                                                        |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P370+P378      | In case of fire: Use agents recommended in Section 5 of SDS for extinction                                                       |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.                                                                 |
| P403+P235      | Store in a well-ventilated place. Keep cool.                                                                                     |
| P501           | Dispose of contents/container to an approved waste disposal facility                                                             |

## SECTION 3: Composition/information on ingredients

##### Mixtures

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Information on Composition: This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

#### Components

| Component                  | Identification                                                   | Weight %     |
|----------------------------|------------------------------------------------------------------|--------------|
| Water                      | CAS no.: 7732-18-5<br>EC no.: 231-791-2                          | $\geq 35 \%$ |
| Ethanol                    | CAS no.: 64-17-5<br>EC no.: 200-578-6<br>Index no.: 603-002-00-5 | $< 28 \%$    |
| Formaldehyde, 37% solution | CAS no.: 50-00-0<br>EC no.: 200-001-8<br>Index no.: 605-001-00-5 | $< 24 \%$    |
| Acetic acid                | CAS no.: 64-19-7<br>EC no.: 200-580-7<br>Index no.: 607-002-00-6 | $< 12 \%$    |
| Methanol                   | CAS no.: 67-56-1<br>EC no.: 200-659-6<br>Index no.: 603-001-00-X | $\leq 2 \%$  |
| Eosin                      | CAS no.: 17372-87-1<br>EC no.: 239-138-3                         | $< 1 \%$     |

## SECTION 4: First-aid measures

#### Description of necessary first-aid measures

|                         |                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).                                                                                                                        |
| If inhaled              | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.                                                                                                                                          |
| In case of skin contact | Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician                                                                                                                                        |
| In case of eye contact  | If in eyes, hold eyelids apart and flush eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes. |
| If swallowed            | Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.                                                                                                                                                          |

#### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## SECTION 5: Fire-fighting measures

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#### Suitable extinguishing media

Caution: Use of water spray when fighting fire may be inefficient.

Small fire: Use foam, dry chemical, CO<sub>2</sub> or water spray.

Large fire: Use foam, fog or water spray - Do NOT use water jets.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

#### Specific hazards arising from the chemical

FLAMMABLE: These products have a low flash point. Will be easily ignited by heat, sparks or flames. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Fire will produce irritating, poisonous and/or corrosive gases. Vapours from run-off may create an explosion hazard. Isolate for at least 800 metres in all directions if tanks or tankers are involved. The use of compressed air for filling, discharging, mixing or handling is prohibited due to the vapour hazard. All vessels must be earthed to avoid generation of static charges when agitating or transferring solvents. Intrinsically safe equipment is necessary in areas where this chemical is being used.

#### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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## SECTION 6: Accidental release measures

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

Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

#### Methods and materials for containment and cleaning up

Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

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## SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wear appropriate protective clothing, safety glasses, gloves. Wash hands and face thoroughly after working with material. Areas in which people handle this chemical should be equipped with safety showers. Remove contaminated clothing and wash before re-use. Avoid inhalation and ingestion. Under no circumstances eat, drink or smoke while handling this material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Conditions for safe storage, including any incompatibilities

Store in tightly closed containers, in a cool, dry, ventilated area away from sources of heat or ignition.

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## SECTION 8: Exposure controls/personal protection

#### Control parameters

##### CAS: 50-00-0

Formaldehyde, 37% solution

AU/SWA (Australia): 2 ppm; 2.5 mg/m<sup>3</sup> STEL inhalation; 1 ppm; 1.2 mg/m<sup>3</sup> TWA inhalation

##### CAS: 64-17-5

Ethanol

AU/SWA (Australia): 1000 ppm; 1880 mg/m<sup>3</sup> TWA inhalation [Ethyl alcohol]

##### CAS: 64-19-7

Acetic acid

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AU/SWA (Australia): 15 ppm; 37 mg/m<sup>3</sup> STEL inhalation; 10 ppm; 25 mg/m<sup>3</sup> TWA inhalation

#### CAS: 67-56-1

Methanol

AU/SWA (Australia): 250 ppm; 328 mg/m<sup>3</sup> STEL inhalation [Methyl alcohol]; 200 ppm; 262 mg/m<sup>3</sup> TWA inhalation [Methyl alcohol]

#### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

##### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

##### Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

##### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

|                                                                       |                      |
|-----------------------------------------------------------------------|----------------------|
| Physical state                                                        |                      |
| Appearance, such as physical state and colour                         | No data available.   |
| Colour                                                                | No data available.   |
| Odour                                                                 | Characteristic       |
| Odour threshold                                                       | No data available.   |
| Melting point and freezing point                                      | No data available.   |
| Boiling point or initial boiling point and boiling range              | No data available.   |
| Flammability                                                          | Flammable            |
| Lower and upper explosion limit or lower and upper flammability limit | No data available.   |
| Flash point                                                           | 12 °C (100% ethanol) |

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|                                                                 |                    |
|-----------------------------------------------------------------|--------------------|
| Explosive properties                                            | No data available. |
| Auto-ignition temperature                                       | No data available. |
| Decomposition temperature                                       | No data available. |
| Oxidising properties                                            | No data available. |
| pH                                                              | Acidic             |
| Kinematic viscosity                                             | No data available. |
| Solubility                                                      | No data available. |
| Partition coefficient — n-octanol/<br>water (logarithmic value) | No data available. |
| Vapour pressure                                                 | No data available. |
| Evaporation rate                                                | No data available. |
| Density and relative density                                    | No data available. |
| Relative vapour density                                         | No data available. |
| Particle characteristics                                        | No data available. |

#### Supplemental information regarding physical hazard classes

No data available.

#### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

Reacts with incompatible materials

Risk of ignition. Vapours may form explosive mixtures with air

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Hazardous Polymerization: Will not occur.

### Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

### Incompatible materials

Alkali metals, Oxidizing agents, soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, Amines, Alcohols, Nitric acid

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#### Hazardous decomposition products

Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Ingestion: Harmful if swallowed. May cause digestive tract irritation with immediate pain, swelling of the throat. Ingestion is not a typical route of occupational exposure.

Inhalation: Harmful by inhalation. May cause irritation of nose, throat, respiratory tract and lungs with coughing, burns, breathing difficulty. Breathing vapour or mist may result in digestive disturbances (vomiting, difficulty in swallowing, nausea, vomiting, diarrhoea, loss of appetite). Substance is unlikely to pose an inhalation hazard unless it is heated or misted, as it does not readily form a vapour at room temperature.

#### Skin corrosion/irritation

Harmful in contact with skin. Corrosive following skin contact. Skin contact and absorption is the most common route of occupational exposure. Repeated contact with dilute solutions or even brief contact with concentrated solutions can pose a risk to life. Readily absorbed through the skin and can cause harmful effects. Signs and symptoms of phenol toxicity develop rapidly and include central nervous system effects, muscle weakness, tremors, loss of coordination, effects on the heart and blood vessels, shock, sudden collapse, coma, convulsions, lung and kidney damage and death.

#### Serious eye damage/irritation

May cause severe irritation, eye burns, redness, pain, blurred vision and permanent damage, including blindness. Vapours are irritating to eyes.

#### Respiratory or skin sensitization

Respiratory sensitisation: Not classified based on available information.

Skin Sensitisation: Sensitization - Skin: Category 1B

H317 May cause an allergic skin reaction.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Carcinogenicity: Category 1B

H351 Suspected of causing cancer by inhalation.

#### Reproductive toxicity

Not classified based on available information.

#### Specific target organ toxicity (STOT) - single exposure

May cause damage to organs.

#### Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

#### Aspiration hazard

Not classified based on available information.

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## SECTION 12: Ecological information

### Toxicity

No data available on product

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

#### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

### ADG (Road and Rail)

UN Number: 1992

Class: 3, 6.1

Packing Group: II

Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol 30%, Formaldehyde <10%, Methanol <2%)

Environmental Hazards: Toxic for aquatic organisms. Toxic effect on fish and plankton. Forms toxic mixtures in water, dilution measures notwithstanding. Change in the flavour characteristics of fish protein. Endangers drinking-water supplies if allowed to enter soil or water.

### Hazchem emergency action code (EAC)

•3WE

### IMDG

UN Number: 1992

Class: 3, 6.1

Packing Group: II

Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol 30%, Formaldehyde <10%, Methanol <2%)

Environmental Hazards: Toxic for aquatic organisms. Toxic effect on fish and plankton. Forms toxic mixtures in water, dilution measures notwithstanding. Change in the flavour characteristics of fish protein. Endangers drinking-water supplies if allowed to enter soil or water.

### IATA

UN Number: 1992

Class: 3, 6.1

Packing Group: II

Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethanol 30%, Formaldehyde <10%, Methanol <2%)

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Australia SUSMP

Poison Schedule: S6

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## SECTION 16: Other information

### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

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#### Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](https://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)