

## 1. Chemical Product and Company Identification

<b>Product Name</b>	<b>Formula D</b>
<b>Other Means of Identification</b>	<b>None</b>
<b>Product Code</b>	5lt: 41-495
<b>Product Use</b>	Fine Fabric Rinse Browning Prevention/Correction Dye Stabilize
<b>Supplier</b>	Solo Pak Pty Ltd
<b>ABN</b>	29 076 652 269
<b>Mail Address</b>	PO Box 67, Brisbane Markets QLD, 4106
<b>Email</b>	sales@solopak.com.au
<b>Telephone:</b>	1300 307 755
<b>Facsimile</b>	07 3378 4100
<b>Emergency Telephone:</b>	Poisons Information Centre (National) 131126

## 2. Hazards Identification

Classification of the substance or mixture

This product is classified as Hazardous according to the criteria of SWA.

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

<b>GHS Classification</b>	<b>Eye Damage / Irritation 2A</b>
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<b>GHS Label Elements</b>	
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<b>SIGNAL WORD</b>	<b>WARNING</b>
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Hazard Statement(s)

H319	Causes serious eye irritation
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Prevention(s)

P102	Keep out of reach of children.
P270	Wash contacted areas thoroughly after handling.
P280	Wear protective gloves / protective clothing / eye protection / face protection.

Refer to the SDS before using the product.

Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage**

P404:	Store in a closed container.
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**Disposal**

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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**3. Composition/Information on Ingredients**

(Listed when present at 1% or greater, carcinogens at 0.1% or greater)

Chemical Name	CAS Registry Number	% Weight	Hazard Information
Sodium C14-C16 Olefin Sulfonate	68439-57-6	<5	H302: Harmful if swallowed H315: Causes skin irritation H401: Toxic to aquatic life. H412: Harmful to aquatic life with long lasting effects
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	166736-08-9	<5	H315: Causes skin irritation H319: Causes serious eye irritation. H302: Harmful if swallowed
Citric acid	77-92-9	<5	H315: Causes skin irritation H319: Causes serious eye irritation
Lactic acid	50-21-5	<5	H290: May be corrosive to metals. H315: Causes skin irritation. H318: Causes eye damage.
Ingredients determined to be non-hazardous	Various	Too 100	None

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equaled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

**4. First Aid Measures**

General	For advice, contact a Poisons Information Centre (Australia 13 11 26) or a doctor. If swallowed, do NOT induce vomiting. Immediately give a glass of water.
Inhalation	No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and

Skin	observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.
Eyes	Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice immediately if irritation occurs. Take special care if exposed person is wearing contact lenses.
Ingestion	If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

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

Treat symptomatically.

## 5. Fire Fighting Measures

Extinguishing Media	Not combustible. Use extinguishing media suited to burning materials.
Fire Fighting	If a significant quantity of this product is involved in a fire, call the fire brigade.
Fire and Explosion Hazards	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Fire decomposition products from this product are likely to be irritating if inhaled.
Flash point:	Does not burn.
Upper Flammability Limit:	Does not burn.
Lower Flammability Limit:	Does not burn.
Autoignition temperature:	Not applicable - does not burn.
Flammability Class:	Does not burn.

## 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. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite.
Major Spills	Minor hazard. Clear area of personnel.

Alert Fire Brigade and tell them location and nature of hazard.  
Control personal contact with the substance, by using protective equipment as required.

## 7. Precautions for handling and storage

### Precautions for safe handling

Precautions for Safe Handling	Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. DO NOT allow clothing wet with material to stay in contact with skin
Other Information	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

### Conditions for safe storage, including any incompatibilities

Suitable containers	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage Incompatibility	None known

## 8. Exposure controls /personal protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure limits have not been established by SWA for any other significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation:	This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
Eye Protection:	Eye protection such as protective glasses or goggles is recommended when this product is being used.
Skin Protection:	You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.
Protective Material Types:	We suggest that protective clothing be made from the following materials: rubber, PVC.
Respirator:	Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally

necessary.  
Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

## 9. Physical and chemical properties

Appearance and colour	Clear mobile liquid
Odour	Neutral odour
pH	In concentrate: 2-2.5 range
Vapour pressure	No data.
Vapour density	No data.
Boiling point	Approximately 100°C
Boiling range	No data.
Melting point	No data.
Solubility in water	Miscible
Specific gravity	0.98 – 1.0 @ 25 °C
Flash point	Non Flammable
Solubility limits	N/a
Percent volatile	Approx 95 % v/v

## 10. Stability and Reactivity

Reactivity	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid	Keep containers tightly closed.
Incompatible Materials	Oxidising agents.
Fire Decomposition	Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation	This product will not undergo polymerisation reactions.

## 11. Toxicological information

### Local Effects:

Target Organs | There is no data to hand indicating any particular target organs.

### Classification of Hazardous Ingredients

Ingredient	Risk Phrases
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No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

**Potential Health Effects**

Inhalation	<p>Short Term Exposure: Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.</p> <p>Long Term Exposure: No data for health effects associated with long term inhalation.</p>
Skin Contact	<p>Short Term Exposure: This product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure has ceased.</p> <p>Long Term Exposure: No data for health effects associated with long term skin exposure.</p>
Eye Contact	<p>Short Term Exposure: This product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.</p> <p>Long Term Exposure: No data for health effects associated with long term eye exposure.</p>
Ingestion	<p>Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product is a severe oral irritant. Symptoms may include extreme pain and reddening of skin in mouth and throat. Other symptoms such as blisters may also become evident, and may last long after exposure has ceased.</p> <p>Long Term Exposure: No data for health effects associated with long term ingestion.</p>
Carcinogen Status	
SWA	No significant ingredient is classified as carcinogenic by SWA
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.

**12. Ecological information**

Environmental	May be harmful to aquatic organisms.
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**13. Disposal considerations**

Disposal	Containers should be emptied as completely as practical before disposal. If possible, recycle product and containers either in-house
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or send to recycle company. If this is not practical, send to a commercial waste disposal site.

## 14. Transport Information

UN Number | This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

## 15. Regulatory Information

AICS | All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## 16. Other information

### Abbreviations

AICS	Australian Inventory of Chemical Substances
CAS Number	Unique Chemical Abstracts Service Registry Number
EC50	Ecotoxic Concentration 50% — concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
ES	Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed in a work day
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD50	Lethal Dose 50% — dose which is fatal to 50% of a test population (usually rats).
LC50	Lethal Concentration 50% — concentration in air which is fatal to 50% of a test population (usually rats)
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
Peak Limitation	Peak Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average — generally referred to ES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number

### References

Data	Unless otherwise stated comes from IUCLID datasheet for the specific chemical.
NOHSC: 1003	National Occupational Health and Safety Commission 1995, Exposure Standards for Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

| [NOHSC:1003(199511

Prepared By	Jon Sprinkhuizen
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Changes Made	Update SDS to GHS format
References	Australian Dangerous Goods Code Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice 2011. Standard for the Uniform Scheduling of Medicines & Poisons (SUSMP) Guidance
Contact Person/Point	Australia 24 HOUR EMERGENCY CONTACT Poisons Information Centre 13 11 26
Legal Disclaimer	The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**End of MSDS**