

MATERIAL SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Material Safety Data Sheet following

Issue: March 2021, Revision no 7 - February 22

PRODUCT: Food Grade Ink
 Quick Dry Meat Marking Ink

Other Names: Flammable Liquids, N.O.S.

Uses: Meat Printing/ Stamp Ink, constituents USA
 FDA approved

UN No.:	1993
Dangerous Goods Class:	3
Subsidiary Risk:	None
Packing Group:	III
Hazchem Code:	• 3Y
Poisons Schedule:	None

Hazardous Nature:	This product is classified as hazardous under the SafeWork Australia criteria.
Exposure Standards:	TWA: None specified: consider 5 g/m ³ ; STEL: None specified: consider 5 g/m ³ ; Peak Limitation (if any): None; Skin Sensitiser (if any): None. Refer to Section 8 for further information and definitions.

<u>Physical Characteristics (Typical)</u>	Section 9 of the MSDS
Appearance	Coloured, mobile liquid
Melting Point (°C):	> 200
Relative Density (g/100g @ 20°C):	1.10
pH:	4.5
Chemical Stability:	This product is stable at room temperature and pressure.
Reactivity:	Excessive heat, acids, alkalis, oxidising agents.

<u>Product Ingredients</u>			Section 3 of the MSDS
Ingredient	CAS Number	Proportion	
Food grade alcohol	64-17-5	< 50	
Sorbitol	50-70-4	< 40	
Surfactants	various	< 5	
Colourants	various	< 5	

For further ingredients information, please refer to the full MSDS

<u>Risk Phrases</u>	Section 2 of the MSDS
R 10: Flammable	

DEFINITIONS

Dangerous Goods	Products that are regulated for transport under the UN International guidelines are classified as Dangerous Goods. Products can be classified by their physical characteristics and may have only one Dangerous Goods designation, although may have a subsidiary risk. These products may be Dangerous Goods for transport by Air and Sea, but may not be classed as Dangerous Goods by Road and Rail in Australia. Refer to the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG) for more information.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by virtue of their chemical nature, rather than as a condition of their misuse. These hazards include mutagens, teratogens, carcinogens, and products that are harmful or irritant in nature. These products may or may not carry a Dangerous Goods classification.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. The associated warnings, cautions and First Aid instruction are prescriptive under the regulation in Australia.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name: Quick Dry Meat Marking Ink - Food Grade Ink
Other Names: Flammable Liquids, N.O.S.
Chemical Family: Food grade ink
Recommended Use: Meat Printing / Stamping Ink
Supplier: Mitchell Engineering Food Equipment Pty Ltd
ABN: 86143027052
Address: 23 Storie Street, Clontarf QLD 4019
Telephone: +61 7 3283 4536
Fax: +61 7 3885 8940
Emergency Phone: 1800 669 006
All other inquiries: 0422 811 260

2. HAZARDS IDENTIFICATION

Hazard Classification

This product is classified as hazardous under the SafeWork Australia criteria

Hazard Category

F: Flammable

Risk Phrases

R 10: Flammable

Safety Phrases

S 2: Keep out of the reach of children
S 16: Keep away from sources of ignition

Dangerous Goods Classification

Poisons Schedule

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Food grade alcohol	64-17-5	< 50
Sorbitol	50-70-4	< 40
Surfactants	various	< 5
Colourants	various	< 5

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, do NOT induce vomiting.

Eye Contact

If in eyes wash out immediately with water.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water

Inhalation

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

First Aid Facilities

Eyebaths, safety showers

Medical Attention

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Alcohol resistant foam or, if unavailable, dry chemical or foam.

Hazards from combustion products

Carbon dioxide, carbon monoxide and other vapours on burning or oxidation

Precautions for fire fighters and special protective equipment

Fully self-contained breathing apparatus

Hazchem Code

□3Y

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE

Precautions for Safe Handling

This product is combustible and will fuel a fire in progress. Avoid discharge to waterways or grasslands. This product is soluble with water and will disperse rapidly.

Conditions for Safe Storage

This product is combustible and will fuel a fire in progress. Avoid sources of ignition. Protect packaging from damage. Check regularly for leaks. Dam spills and recover with absorbent material.

Incompatible Materials

None known

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: Recommended: , which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: Recommended: , which is the maximum allowable exposure concentration at any time.

Biological Limit Values (BLV)

None specified

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type ‘A’ filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Coloured, mobile liquid
Boiling Range	°C	> 200

Property	Unit of measurement	Typical Value
Density	g/100g; kgm ⁻³	1.10
Explosive Limits in Air	% vol/vol	No data available
Flash Point	°C	45
Solubility in Water	g/l	Soluble
Other solvents	-	Alcohols

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to avoid

None known

Hazardous reactions

Excessive heat, acids, alkalis, oxidising agents.

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

This product will cause discomfort on swallowing and is likely to result in gastric disturbances. Large doses will result in euphoria and central nervous system effects such as headache, nausea, and dizziness.

Eye Contact

This product may be irritating to eyes on contact, but will not result in permanent corneal damage.

Skin Contact

This product may result in defatting of the skin and irritant contact dermatitis with prolonged and repeated use.

Inhalation

This product is unlikely to produce excessive vapours at ambient temperature, however, at elevated temperatures, there may result some vapour causing discomfort. Mists of this product, while unlikely in normal conditions of use, can be harmful if inhaled.

Chronic Effects

Repeated or prolonged contact with this product may result in irritant contact dermatitis result in skin cracking. The recommended PPE will avoid unnecessary and undue direct product contact.

Other Health Effects Information

Persons with pre-existing skin, liver or kidney conditions may be sensitive to this product. Appropriate applications of PPE will avoid any undue product contact.

Toxicological Information

Oral LD₅₀: Sorbitol: 15900 mg/kg

Inhalation TC_{L0}: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC₅₀: No data available: not expected to be harmful.
 Daphnia Magna EC₅₀: No data available: not expected to be harmful.
 Blue-green algae: No data available: not expected to be harmful.
 Green algae: No data available: not expected to be harmful.

Mobility/Biodegradability: This product is likely to biodegrade on exposure to light and air. It is highly mobile on dilution with water, but is not likely to pose a threat to organisms if accidentally released.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

This product can be recycled. As a USFDA approved product, the packaging can be disposed as general waste.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1993	UN No.	1993	UN No.	1993
Proper Shipping Name	Flammable Liquid n.o.s. (containing food grade alcohol)	Proper Shipping Name	Flammable Liquid n.o.s. (containing food grade alcohol)	Proper Shipping Name	Flammable Liquid n.o.s. (containing food grade alcohol)
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	III	Packing Group	III	Packing Group	III
Hazchem	□3Y	Hazchem	□3Y	Hazchem	□3Y

Dangerous Goods Segregation

This product is not regulated for Transport via Road and Rail.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule:

16. OTHER INFORMATION

Reasons for Issue: New product supply to Australia; amalgamated supplier changes in all sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

PPE: Personal Protective Equipment

N/R: Non-regulated

N/A: Not applicable

References:

- Supplier Material Safety Data Sheets
- <http://hsis.ascc.gov.au/SearchHS.aspx> (February 22)
- Animal toxicology data: <http://chem.sis.nlm.nih.gov/chemidplus> (February 22)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (February 22)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Mitchell Engineering Food Equipment Pty Ltd.
