

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

A0070

FURANEOL, SYNTHETIC

PRODUCT NAME

SUPPLIER

Shanghai M & U International Trade Co., Ltd. Rm 1717, No 598 North NuJiang Road 200333 Shanghai, China +86-21-32515501 32515502 sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

	Emergency O	lverview					
	OSHA Hazar	OSHA Hazards					
	Harmful by ingestion						
	GHS Classification						
	Acute toxicity, Oral (Category 4)						
	GHS Label elements, including precautionary statements						
	Pictogram						
	Signal word	Warning					
Hazard statement(s)		nent(s)					
	H302	Harmful if swallowed					
		Precautionary statement(s) none					
	HMIS Classif	ication					
	Health hazard	1					
	Flammability	1					
Physical hazards							
	NFPA Rating						
	Health hazard	1					
	Fire	1					
	Reactivity Haz						
	Potential Health Effects						
Inhalation May be harmf		May be harmful if inhaled. May cause respiratory tract irritation					
	Skin	Harmful if absorbed through skin. May cause skin irritation					
	Eyes	May cause eye irritation.					
	Ingestion	Harmful if swallowed					

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Formula	C6 H8 O3
Molecular Weight	128.13 g/mol
U	e
CAS-No	EC-No
3658-77-3	222-908-8

~	5050-77-5	

4. FIRST-AID GUIDE:

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING GUIDE:

Conditions of flammability

Not flammable or combustible. **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Special protective equipment for fire-fighters** Wear self contained breathing apparatus for firefighting if necessary. **Hazardous combustion products** Hazardous decomposition products formed under fire conditions-Carbon oxides.

6. ACCIDENTAL RELEASE GUIDE:

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE:

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Air sensitive. Keep in a dry place.

8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protections tested and approved under appropriate government standards such as NOISH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	
Form	SOLID
Color	OFF-WHITE TO YELLOW
Safety data	
Melting point (°C)	75
Flash point (°F)	Closed cup >200
Water solubility	SOLUBLE
Relative vapor density	>1
Odor	FRUITY, CARAMEL

10. STABILITY AND REACTIVITY:

Chemical stability

Stable under recommended storage conditions. **Materials to avoid** Strong oxidizing agents. **Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Carbon oxides.

11. TOXICOLOGICAL INFORMATION:

Acute toxicity Oral LD50 LD50 Oral - mouse - 1,608 mg/kg

Germ cell mutagenicity

Genotoxicity in vivo - mouse - Oral Micronucleus test

Genotoxicity in vivo - mouse - Intraperitoneal Micronucleus test

Genotoxicity in vivo - mouse - Intraperitoneal Sister chromatid exchange

Genotoxicity in vivo - mouse - Intraperitoneal sperm

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable. Possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential health effects

Inhalation	May be harmful if i	nhaled. May cause	e respiratory	tract irritation.
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Ingestion Harmful if swallowed.

- Skin Harmful if absorbed through skin. May cause skin irritation.
- Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. DISPOSAL RECOMMENDATIONS:

Product Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** Dispose of as unused product.

13. TRANSPORTATION INFORMATION:

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14. REGULATORY INFORMATION:

OSHA Hazards Harmful by ingestion.

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Acute Health Hazard

Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

4-Hydroxy-2,5-dimethylfuran-2(3H)-one

CAS-No. 3658-77-3 **Revision Date**

New Jersey Right To Know Components

4-Hydroxy-2,5-dimethylfuran-2(3H)-one

CAS-No. 3658-77-3 **Revision Date**

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

OTHER INFORMATION:

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.

Prepared by Shanghai M&U International