

# SAFETY DATA SHEET

# 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0137

**PRODUCT NAME** 

**SUPPLIER** 

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SOY FURANEOL, SYNTHETIC

# FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

# 2. HAZARD IDENTIFICATION:

Physical hazards	Flammable liquids	Category 4
Health hazards	Acute toxicity, oral Skin corrosion/irritation Serious eye damage/eye irritation	Category 4 Category 2 Category 2A

Not classified.

**Environmental hazards** 

Label elements



Signal word Warning

# Hazard statement

H227	Combustible liquid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H315 + H320	Causes skin and eye irritation.
H319	Causes serious eye irritation.

# **Precautionary statement**

# Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264	Wash thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/eye protection/face protection.
Response	
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of 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.
P321	Specific treatment (see this label).
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.
Disposal	
P501	Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

**Supplemental information** None.

# 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Substances			
Chemical name	Common name and synonyms	CAS number	%
ETHYL-2 5-METHYL	5- ethyl-4-hydroxy-2-methylfuran-3-one	27538-09-6	100
4-HYDROXY	2- ethyl-4-hydroxy-5-methyl-3-(2H)-furanone		
3(2H)-FURANONE	3(2H)- furanone, 5-ethyl-4-hydroxy-2-methyl		
	4-hydroxy-5-ethyl-2-methyl-3(2H)-furanone		

# 4. FIRST-AID GUIDE:

# Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

# Skin contact

Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

## Eye contact

Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

#### Ingestion

Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

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

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

# Indication of immediate medical attention and special treatment needed

Not available.

#### **General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. FIRE-FIGHTING GUIDE:

#### Suitable extinguishing media

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

# Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.

#### **Firefighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

### **Specific methods**

Use water spray to cool unopened containers.

#### **General fire hazards**

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

# 6. ACCIDENTAL RELEASE GUIDE:

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

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

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

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.

# 7. HANDLING AND STORAGE:

#### **Precautions for safe handling**

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

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

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

# 8. EXPOSURE AND PERSONAL PROTECTION:

#### **Occupational exposure limits**

No exposure limits noted for ingredient(s).

#### **Biological limit values**

No biological exposure limits noted for the ingredient(s).

#### **Appropriate engineering controls**

Use explosion-proof ventilation equipment to stay below exposure limits.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection Hand protection** Chemical resistant gloves.

**Other** Not available.

#### **Respiratory protection**

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

#### **Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

#### General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	87.8 - 95 °F (31 - 35 °C)
Initial boiling point and boiling range	478.4 °F (248 °C)
Flash point	149.0 °F (65.0 °C) Closed Cup
Evaporation rate	Not available.

Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive	
limits	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.01 mm Hg at 25 °C
Vapor density	4.9
Relative density	Not available.
Solubility(ies)	
Solubility (water	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flammability class	Combustible IIIA estimated
Molecular formula	C7H10O3
Molecular weight	142.15 g/mol
Specific gravity	1.14 at 25 °C

# **10. STABILITY AND REACTIVITY:**

#### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

#### **Chemical stability**

Material is stable under normal conditions.

#### **Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

# **Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### **Incompatible materials**

Strong oxidizing agents.

#### Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

# **11. TOXICOLOGICAL INFORMATION:**

#### Information on likely routes of exposure

#### Inhalation

No adverse effects due to inhalation are expected.

#### Skin contact

Causes skin irritation.

## Eye contact

Causes serious eye irritation. Causes mild eye irritation.

# Ingestion

Harmful if swallowed.

# Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

# Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

Product	Species	Test Results	and the second s
ETHYL-2 5-METHYL 4-HYDROXY 3(2H)-FURANONE (CAS 27538-09-6)			
Acute		a state of the sta	
Oral			
LD50	Rat	1731 mg/kg	

\* Estimates for product may be based on additional component data not shown.

#### Skin corrosion/irritation

Causes skin irritation.

# Serious eye damage/eye irritation

Causes serious eye irritation.

# Respiratory or skin sensitization Respiratory sensitization

Not available.

# Skin sensitization

This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

# Carcinogenicity OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### **Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

# Specific target organ toxicity - single exposure

Not classified.

**Specific target organ toxicity repeated exposure** Not classified.

**Aspiration hazard** Not available.

# **12. ECOLOGICAL INFORMATION:**

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Persistence and degradability

No data is available on the degradability of this product.

# Bioaccumulative potential

No data available.

**Mobility in soil** No data available.

#### **Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# **13. DISPOSAL RECOMMENDATIONS:**

#### **Disposal instructions**

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Local disposal regulations

Dispose in accordance with all applicable regulations.

#### Hazardous waste code

Not established.

# **14. TRANSPORTATION INFORMATION:**

ADN	Not regulated as dangerous goods.		
ADR	Not regulated as dangerous goods.		
RID	Not regulated as dangerous goods.		
DOT			
BULK			
UN number	NA1993		
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (ETHYL-2 5-METHYL 4-		
	HYDROXY 3(2H)-FURANONE)		
Hazard class	Combustible liq		
Packing group	III		
Special precautions	Read safety instructions, SDS and emergency procedures before		
	handling.		
Special provisions	IB3, T1, T4, TP1		
Packaging exceptions	150		
Packaging non bulk	203		
Packaging bulk	241		
DOT	the second se		
NON-BULK	Not regulated as dangerous goods.		
IATA	Not regulated as dangerous goods.		
IMDG	Not regulated as dangerous goods.		
DOT BULK	COMBUSTIBLE 3		

# **15. REGULATORY INFORMATION:**

#### **US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

#### Standard, 29 CFR 1910.1200.

**CERCLA Hazardous Substance List (40 CFR 302.4)** Not listed.

# **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

# SARA 304 Emergency release notification

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard – No

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting) Not regulated.

## **Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations US. Massachusetts RTK - Substance List Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act** Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law** Not listed.

**US. Rhode Island RTK** Not regulated.

# US. California Proposition 65 US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical	Yes
	Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List	No
	(NDSL)	
China	Inventory of Existing Chemical	Yes
	Substances in China (IECSC)	
Europe	European Inventory of Existing	Yes
	Commercial Chemical Substances	
	(EINECS)	
Europe	European List of Notified Chemical	No
	Substances (ELINCS)	
Japan	Inventory of Existing and New	No
	Chemical Substances (ENCS)	
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals	Yes
	and Chemical Substances (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act	Yes
	(TSCA) Inventory	

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# **16. OTHER INFORMATION:**

# HMIS® ratings

Health: 2 Flammability: 2 Physical hazard: 0

The information in this SDS 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 SDS. 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 SDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC

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