

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

**Section 1: IDENTIFICATION**

Product Name: **Mesifuran, Natural**  
 Product Number: **0366400**  
 CAS-No.: **4077-47-8**

Recommended Use: Flavorings

Manufacturer: Aurochemicals  
 7 Nicoll Street  
 Washingtonville, NY 10992 – USA  
 845-496-6065  
 845-496-6248 Fax

Emergency Telephone No.: 1-800-535-5053  
 (International 1-352-323-3500 collect)

**Section 2: HAZARD(s) IDENTIFICATION**

Classification of substance or mixture:  
 GHS Classification in accordance with 29 CFR  
 1910 (OSHA HCS):

Flammable liquids (Category 4), H227  
 Acute Toxicity, Oral (Category 4), H302  
 Acute Aquatic Toxicity (Category 3), H402  
 Chronic Aquatic Toxicity (Category 3), H412

GHS Label elements, including precautionary  
 statements:

Pictogram:



Signal Word:

Warning

Hazard Statement(s):

H227 Combustible liquid  
 H302 Harmful if swallowed  
 H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces-No smoking.  
 P264 Wash skin thoroughly after handling  
 P270 Do not eat, drink or smoke when using this product  
 P273 Avoid release into the environment  
 P280 Wear protective gloves/protective clothing/eye protection/face protection

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P301+P312 Rinse mouth  
 P330 In case of fire: Use dry sand, dry chemical or alcohol resistant foam  
 P370+P378 Store in a well-ventilated place. Keep cool.  
 P403+P235 Dispose of contents/container to an approved waste disposal plant.  
 P501

Hazards not otherwise classified (HNOC) or not covered by GHS: None

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	2,5 dimethyl 4-methoxy-3[2h]-furanone
Common Name:	
Synonyms:	4-Methoxy-2,5-dimethyl-3(2H)furanone
CAS #	4077-47-8
EC#	223-797-9
Molecular Formula	C <sub>7</sub> H <sub>10</sub> O <sub>3</sub>

### Section 4: FIRST AID MEASURES

General Advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. Seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with plenty of mild soap and warm water. Seek medical advice.
Inhalation:	If breathed in, move person into fresh air. Keep in a position comfortable for breathing. Seek medical advice.
Ingestion:	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician
Clothing contamination:	Wash contaminated clothing before re-use

### Section 5: FIREFIGHTING MEASURES

Suitable extinguishing media	For small (incipient) fires, use media such as alcohol foam, dry chemical, or carbon dioxide. For large fires, apply water from as far away as possible. Use very large quantities (flooding) of water applied as a mist or spray. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary
Other Information	Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater. Keep away from sources of ignition.
Special risks	Hazardous decomposition products formed under fire conditions – Carbon oxides

## Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear personal protection. Avoid breathing vapors, mist or gas. Ensure supply of fresh air or adequate ventilation in enclosed rooms. Evacuate personnel to safe areas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Procedures for cleaning / absorption	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Ventilate area	After sweep up, wash area and ventilate area well

## Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Take precautionary measures against static discharges. Keep away from sources of ignition. When using this product, do not eat or drink.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place, away from sources of ignition. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage: 2-8°C. Handle and store under inert gas. Air and moisture sensitive.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values.
Personal Protective Equipment:	<b>These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.</b>
Body Protection:	Complete suit protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory Protection:	Where risk assessment shows respirators are appropriate the respirator should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. Use respirators and components tested and approved under appropriate government standards such as NIOSH.
Eye Protection:	Wear appropriate face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Wear chemically resistant Nitrile rubber gloves and wash and dry hands after handling this product.
Industrial Hygiene:	Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless to Pale yellow
Odor:	No data available
Boiling Point:	61-63°C(0.3mmHg)
Flashpoint:	75oC
Melting Point	No data available
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	1.087-1.095
Solubility	Insoluble in water; soluble in fats and ethanol

## Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No data available
Conditions to avoid	Heat, flames, sparks
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides

## Section 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute Toxicity

LD50, Oral Rat-	5,000 mg/kg
LC50 Inhalation Rat	No data available
LD50 Dermal - Rabbit	5,000 mg/kg
Further toxicological information	No data available
Skin corrosion / irritation	No data available
Serious eye damage / eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

#### 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 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.

Reproductive toxicity	No data available
Specific target organ toxicity-Single Exposure	No data available

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(GHS)	
Specific target organ toxicity-Repeated Exposure (GHS)	No data available
Aspiration hazard	No data available
Potential health effects	No data available
Synergistic effects	No data available
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Further toxicological information	May be harmful if inhaled, swallowed, or if absorbed through the skin
RTECS	Not available

## Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Other adverse effects	Do not allow to enter water, drain or soil

## Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

## Section 14: TRANSPORT INFORMATION

DOT (US)	Not subject to transport regulations
IMDG	Not subject to transport regulations
IATA	Not subject to transport regulations

## Section 15: REGULATORY INFORMATION

SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	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	Fire Hazard, 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-Methoxy-2-5-dimethylfuran-3(2H)-one CAS # 4077-47-8 Rev. Date:
New Jersey Right to Know Components:	4-Methoxy-2-5-dimethylfuran-3(2H)-one CAS # 4077-47-8 Rev. Date:
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer,

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birth defects, or any other reproductive harm

## Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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