

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	Difurfuryl Sulfide, Natural
Product Number	0323800
CAS-No.	13678-67-6

### 1.2 Product Recommended Use

Flavorings

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
Telephone	845-496-6065
Fax	845-496-6248

### 1.4 Emergency Telephone Number

1-800-535-5053  
International - 1-352-323-3500 collect

## Section 2: HAZARD(s) IDENTIFICATION

### 2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315  
Eye irritation (Category 2A) H319  
Specific target organ toxicity (Category 3) H335

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement      Warning

Hazard Statement(s)	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation

Precautionary Statement(s)	P261	Avoid breathing dust/fume.gas/mist/vapors/spray
	P264	Wash skin thoroughly after handling
	P271	Use only outdoors or in a well-ventilated area
	P280	Wear protective gloves/eye protection/face protection
	P302+P352	IF ON SKIN: Wash with plenty of soap and water
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

P305+P351+P338	breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists; get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P403+P233	Store in a well ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose of contents/container to an approved waste disposal plant.

### 2.3 HNOC (Hazards not otherwise classified or not covered by GHS -None)

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms	Furfuryl sulfide Difurfuryl monosulfide 2,2' (Thiodimethylene)difuran
Formula	C <sub>10</sub> H <sub>10</sub> O <sub>2</sub> S
Molecular Weight	194.25 g/mol
CAS-No	13678-67-6
EC-No.	237-172-3

No ingredients are hazardous according to OSHA criteria  
No components need to be disclosed according to the applicable regulations

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water and contact a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 as a precaution and consult a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

**4.2 Most important symptoms and effects both acute and delayed** See section 2.2 and or section 11

**4.3 Indication of any immediate medical attention and special treatment needed.** No data available

## Section 5: FIREFIGHTING MEASURES

- |     |                                                              |                                                                                                                 |
|-----|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 5.1 | <b>Extinguishing Media</b><br>Suitable Extinguishing Media   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide                                         |
| 5.2 | <b>Special hazards arising from the substance or mixture</b> | Carbon oxides, sulphur oxides.                                                                                  |
| 5.3 | <b>Advice for fire fighters</b>                              | Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions. |
| 5.4 | <b>Further information</b>                                   | Use water spray to cool unopened containers.                                                                    |

## Section 6: ACCIDENTAL RELEASE MEASURES

- |     |                                                                            |                                                                                                                                                             |
|-----|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.1 | <b>Personal precautions, protective equipment and emergency procedures</b> | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area. Avoid breathing dust. |
| 6.2 | <b>Environment precautions</b>                                             | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.                                                        |
| 6.3 | <b>Methods and materials for containment and clean up</b>                  | Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal.                      |
| 6.4 | <b>Specific end use(s)</b>                                                 | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.                                                                        |

## Section 7: HANDLING AND STORAGE

- |     |                                      |                                                                                                                                                                                                 |
|-----|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1 | <b>Precautions for safe handling</b> | Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. |
| 7.2 | <b>Conditions for Safe storage</b>   | Keep container tightly closed in a dry and well-ventilated place.                                                                                                                               |
| 7.3 | <b>Specific End use(s)</b>           | Flavorings                                                                                                                                                                                      |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |     |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.1 | <b>Control parameters</b><br>Components with workplace control parameters<br><br>Contains no substances with occupational exposure limit values |                                                                                                                                                                                                                                                                                                                                                                                              |
| 8.2 | <b>Exposure Controls</b><br>Appropriate Engineering Controls<br><br><b>Personal protective equipment</b>                                        | Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the day.<br><br><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</b> |

## specific use scenario.

Eye/face protection	Wear appropriate safety glasses with side shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Wear chemically resistant, rubber gloves when handling this product.. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Impervious clothing 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	For nuisance exposure 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).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Pale yellow to brown solid or liquid
b	Odor	Powerful, sulfur odor, meaty
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	29-32°C
f	Boiling Point	135-143°C
g	Flash Point	110°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	No data available
m	Relative density at 25°C	1.170-1.185
n	Solubility	Insoluble in water, soluble in most organic solvents

o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available
<b>9.2</b>	<b>Other Safety Information</b>	No data available

## Section 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	No data available
<b>10.2</b>	<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>10.3</b>	<b>Possibility of Hazardous reactions</b>	No data available
<b>10.4</b>	<b>Conditions to avoid</b>	No data available
<b>10.5</b>	<b>Incompatible materials</b>	Strong oxidizing agents
<b>10.6</b>	<b>Hazardous decomposition products</b>	No data available
<b>10.7</b>	<b>Further Information</b>	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral	No data available
LC50-Inhalation	No data available
LD50-Dermal	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 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.

Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	Inhalation – May cause respiratory irritation
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	Nausea, Headache, Vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effect RTECS:	No data available Not available

## Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6 Other adverse effects	No data available

## Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods	
Product:	According to local regulations
Packaging	According to local regulations

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b> Proper shipping name:	NA-Number: 3335 Class: 9 Packing Group: III A Aviation regulated solid, n.o.s. (2'2'-[Thiobis(methylene)]bisfuran)
<b>IMDG</b>	Not dangerous goods
<b>IATA</b> Proper shipping name:	NA-Number: 3335 Class: 9 Packing Group: III A Aviation regulated solid, n.o.s. (2'2'-[Thiobis(methylene)]bisfuran)

## Section 15: REGULATORY INFORMATION

Reach No.	A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage not require a registration or the registration is envisaged for a later registration deadline.
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III,

# Safety Data Sheet

## 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

No SARA Hazards

## Massachusetts Right to Know components

No components are subject to the Massachusetts Right to Know Act

## Pennsylvania Right to Know components

(2'2'-[Thiobis(methylene)]bisfuran) CAS# 13678-67-6 Rev. Date:

## New Jersey Right to Know components

(2'2'-[Thiobis(methylene)]bisfuran) CAS# 13678-67-6 Rev. 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.

## Section 16: OTHER INFORMATION

### HMIS Rating

Health hazard 0  
Chronic Health Hazard  
Flammability 1  
Physical Hazard 0

### Further 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.

<b>Issued by:</b>	<b>Contact Person:</b>
Aurochemicals	Deo N. Persaud
7 Nicoll Street	Revised Date: 8/10/2022
Washingtonville, NY 10992 USA	