

Safety Data Sheet

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Difurfuryl Disulfide 1% in PG, Nat
Product Number	0314600
CAS-No.	4437-20-1/57-55-6

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): Not a hazardous substance or mixture

2.2 GHS Label Elements, Including precautionary statements

Pictogram	None
Signal Statement	None
Hazard Statement(s)	None
Precautionary Statement(s)	None

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	2,2-â€“(Dithiodimethylene)Difuran & Propylene Glycol
Formula	C ₁₀ H ₁₀ O ₂ S ₂
Molecular Weight	226.36 g/mol
CAS-No.	4437-20-1/ 57-55-6
EC-No.	224-649-6/ 200-338-0

Hazardous Components

Component	Classification	Concentration
Propane-1,2-diol		99%

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Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

If breathed in, move person into fresh air; keep at rest and at a comfortable position to breathe and 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.

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 Extinguishing Media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

Carbon oxides, sulphur oxides

5.3 Advice for fire fighters

Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environment precautions

Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.

6.3 Methods and materials for containment and clean up

Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal.

6.4 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

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Section 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place.
Stench – Hygroscopic
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Components with workplace control parameters

Component	CAS No	Value	Control Parameters	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m ³	USA Workplace Environmental Exposure Levels (WEEL)

8.2 Exposure Controls

Appropriate Engineering Controls

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

Personal protective equipment

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.

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, Nitrile rubber gloves, 11mm 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	Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) 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	Clear to pale yellow viscous liquid
b	Odor	Roasted, meaty
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	-60°C
f	Boiling Point	265°C
g	Flash Point	107°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 12.5% (V) Lower explosion limit: 2.6% (V)
k	Vapor pressure	0.11 hPa (0.08 mmHg) at 20°C
l	Vapor density	2.63 (Air=1.0)
m	Relative density at 25°C	1.036 g/cm ³
n	Solubility	Soluble in water and 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

9.2 Other Safety Information No data available

Section 10: STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions

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10.3 Possibility of Hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Acid Chlorides, Acid anhydrides, Strong Oxidizing Agents. Strong Bases, Reducing agents, Chloroformates
10.6 Hazardous decomposition products	No data available
10.7 Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral-Rat	20,000 mg/kg
LC50-Inhalation	No data available
LD50-Dermal-Rabbit	20,800 mg/kg
LD50-Intramuscular –Rat	14 g/kg
LD50-Intravenous-Dog	26 g/kg
LD50-Intraperitoneal-Rat	6,660 mg/kg
LD50-Subcutaneous-Rat	22,500 mg/kg

LD50-Intravenous-Rat	6,423 mg/kg Remarks: Lungs, Thorax or Respiration: Chronic pulmonary edema. Kidney, Ureter, Bladder: Changes in both tubules and glomeruli. Blood changes in spleen
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LD50 – Subcutaneous-Mouse	17,370 mg/kg Remarks: Behavioral: Change in motor activity(specific assay) Muscle contraction or spasticity, cyanosis
LD50- Intravenous- Mouse	6,630 mg/kg
LD-Intravenous - Rabbit	6,500 mg/kg

Skin corrosion/irritation	Human – Mild skin irritation 7 days
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Serious eye damage/eye irritation	Rabbit – Mild eye irritation
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Respiratory or skin sensitization	No data available
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Germ Cell mutagenicity	No data available
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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.
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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.
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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.
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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.
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Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	Gastrointestinal disturbances, Nausea, Headache, Vomiting, Central Nervous system depression
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effect	No data available
RTECS:	TY2000000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	To Fish: Mortality NOEC: Pimephales promelas (fathead minnow) 52,930 mg/l 96 h To daphnia and other aquatic invertebrates Mortality NOEC: Daphnia 13,020 mg/l 48 h EC50- Daphnia magna (water flea) >10,000 mg/l 48h
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

DOT (US)	Not a dangerous good
Proper shipping name:	
Marine pollutant	
Poison Inhalation Hazard	
IMDG	Not dangerous goods
IATA	Not a dangerous good

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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, 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'-[Dithiobis(methylene)]bisfuran	CAS# 4437-20-1	Rev. Date:
	Propane 1,2-diol	CAS# 57-55-6	Rev. Date: 8/11/1989
New Jersey Right to Know components	(2-2'-[Dithiobis(methylene)]bisfuran	CAS# 4437-20-1	Rev. Date:
	Propane 1,2-diol	CAS# 57-55-6	Rev. Date: 8/11/1989
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.

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