

HEALTH 2 FLAMMABILITY 3 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Difurfuryl Disulfide 1% ETOH, Natural

Product Number 0314600

CAS-No. **4437-20-1/64-17-5**

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):

Flammable Liquids,)Category 2) H225

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement

DANGER

Hazard Statement(s)

H225 Highly flammable liquid and vapor

Precautionary Statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces – No Smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion proof electrical/ventilating/lighting/equipment

P242 Use only non sparking tools

P243 Take precautionary measures against static discharge
P280 Wear protective gloves/clothing and eye and face protection

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

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clothing. Rinse skin with water/shower'

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for

extinction

P403+P235 Store in a well ventilated place. Keep cool.

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 2,2 ′–(Dithiodimethylene)Difuran and Ethyl Alcohol

Index No – Ethyl Alcohol 603-02-00-5

Hazardous components

Component Classification Concentration

Ethanol Flammable Liquid (2) H225 99%

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. Move out

of dangerous area.

Inhalation If breathed in, move person to 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. Consult 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

Use water spray to cool unopened containers.

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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: ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas.

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.

Section 7: HANDLING AND STORAGE

7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Use explosion proof equipment. Keep away from sources of ignition. No smoking.

Take measures to prevent the buildup of electrostatic charge.

7.2 Conditions for Safe storage Keep container tightly closed in a dry and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Hygroscopic

7.3 Specific End use(s) Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components no substance with workplace control parameters

Component CAS No Value Control Parameters Basis

Ethanol 64-17-5 TWA 1,000 ppm USA. ACGIJ Threshold Limit Values (TLV)

Remarks Upper Respiratory Tract irritation

Confirmed animal carcinogen with unknown relevance to humans

TWA 1,000 ppm USA. Occupational Exposure Limits (OSHA) – Table

1,900 mg/m3 Z-1 Limits for Air Contaminants

The value in mg/m3 is approximate

TWA 1,000 ppm USA. NIOSH Recommended Exposure Limits

1,900 mg/m3

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices. Provide adequate

exhaust ventilation in areas where product is handled. Wash hands thoroughly 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

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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, Butyl rubber gloves, 0.3mm thick 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 Where risk assessment shows air purifying respirators are appropriate use a full face respirator

with multi-purpose combination (US) or type ABEK (EN-14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. 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

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance
 b Odor
 c Odor Threshold
 d pH
 Clear to pale yellow liquid
 Stench/alcohol like
 No data available
 No data available

e Melting Point /Freezing Point -114°C f Boiling Point 78°C

g Flash Point 14.0°C closed cup h Evaporation Rate No data available i Flammability (Solid, Gas) No data available

Upper/lower Flammability Limit Upper explosion limit: 19% (V)

Lower explosion limit: 3.3% (V) 59.5 hPa (44.6 mmHg) at 20.0°C

k Vapor pressure 59.5 hPa (44.6 mmHg) a

I Vapor density No data available m Relative density at 25°C 0.785-0.820

n Solubility Completely soluble in water and in most organic solvents

o Partition coefficient: n-octanol/water No data available

p Auto-ignition Temp. 363.0°C

qDecomposition Temp,
rNo data available
No data available
No data availablesExplosive propertiesNo data availabletOxidizing propertiesNo 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 Vapors may form explosive mixture with air 10.3 Possibility of Hazardous reactions

Conditions to avoid Heat, Flames, Sparks. Extremes of temperature and direct sunlight 10.4

Incompatible materials Alkali metals, ammonia, oxidizing agents, peroxides 10.5

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 7,060 mg/kg

Remarks: Lungs; Thorax; or Respiration: Other changes

LC50-Inhalation-Rat 20.000 ppm 10 hr LD50-Dermal No data available

Skin corrosion/irritation

Rabbit: No skin irritation – 24 hr (OECD Test Guideline 404) Rabbit: Mild eye irritation – 24 hr (OECD Test Guideline 405) Serious eye damage/eye irritation No data available

Respiratory or skin sensitization Germ Cell mutagenicity No data available

Mouse - Oral Carcinogenicity

Tumorigenic: Equivocal Tumorigenic agent by RTEC criteria: Liver: Tumors;

Blood: Lymphomas including Hodgkin disease

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.

No component of this product, present at levels greater than or equal to 0.1% is NTP

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.

Human: Female - Oral Reproductive toxicity

Effects on Newborn: Apgar score (human only) Other neonatal measures or effects;

drug dependence. No data available No data available

Specific target organ toxicity-single

exposure (GHS)

Teratogenicity

Specific target organ toxicity-repeated No data available

exposures (GHS)

Aspiration Hazards No data available

Signs and Symptoms of Exposure Central nervous system depression, narcosis. Damage to the heart

> Heart irregularities - Based on Human evidence Stomach irregularities - Based on Human evidence

To the best of our knowledge, the chemical, physical, and toxicological properties have

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not been thoroughly investigated

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Safety Data Sheet



Synergistic effect No data available

RTECS: KQ6300000

Section 12: ECOLOGICAL INFORMATION

12.1ToxicityNo data available12.2Persistence and degradabilityNo data available12.3Bioaccumulative potentialNo data available12.4Mobility in soilNo 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) UN Number 1170 Class 9 Packing Group II

Proper shipping name: Ethanol Solution

Marine pollutant No Poison Inhalation Hazard No

IMDG UN Number 1170 Class 9 Packing Group II

Ethanol Solution

IATA UN Number 1170 Class 9 Packing Group II

Ethanol Solution

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 nod 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 Fire Hazard, Chronic Health Hazard

Massachusetts Right to Know Ethanol CAS # 64-17-5 Rev. Date: 3/1/2007

components

Pennsylvania Right to Know components (2-2'-[Dithiobis(methylene])bisfuran CAS# 4437-20-1 Rev. Date:

Ethanol CAS # 64-17-5 Rev. Date: 3/1/2007

New Jersey Right to Know components (2-2'-[Dithiobis(methylene])bisfuran CAS# 4437-20-1 Rev. Date:

Ethanol CAS # 64-17-5 Rev. Date: 3/1/2007

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Safety Data Sheet



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 2
Chronic Health Hazard*
Flammability 3
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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