Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**Dimethyl Sulfide 5% PG, Natural**
Product Number	**0274600**
CAS-No.	**75-18-3/ 57-55-6**

1.2 Product Recommended Use **Flavorings**

1.3 Preparation Information

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

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) **Irritant - Flammable Liquid**

Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Eye irritation (Category 2A) H319
Acute Aquatic Toxicity (Category 3) H402

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement **Danger**

Hazard Statement(s)
H225 Highly flammable liquid and vapor
H319 Causes serious eye irritation
H402 Harmful to aquatic life

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
P264 Wash skin thoroughly after handling
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection

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	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
P303+P361+P353	Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists; get medical advice/attention
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

Synonyms	Methyl sulfide PG Solution DMS
Formula	C_2H_6S
Molecular Weight	62.13 g/mol
CAS-No	75-18-3 / 57-55-6
EC-No.	200-846-2/ 200-338-0

Hazardous Components

Component	Classification	Concentration
Dimethyl sulfide	Flammable Liquid (4) H225 Eye irritation (2A) H319 Acute Aquatic Toxicity (3) H402	5%
Propane-1,2-diol		95%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Consult physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
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 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 — No data available

5.3	**Advice for fire fighters**	Wear self contained breathing apparatus for firefighting if necessary.
5.4	**Further information**	Use water spray to cool unopened containers.

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 area. 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. **Discharge to the environment must be avoided.**
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. Handle and store under inert gas. **Refrigerate before opening. Handle and open container with care. 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
Dimethyl sulfide	75-18-3	TWA	10 ppm	USA ACGIH Threshold Limit Values
	Remarks	Upper Respiratory Tract Irritation		
Propane-1,2-diol	57-55-6	TWA	10 mg/m3	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 and face shield 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, Fluorinated rubber gloves, 0.7 mm 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 AXBEK (EN 14387) respirator cartridge 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 compounds 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 colorless liquid
b	Odor	Cabbage like
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting Point: -98°C
f	Boiling Point	187°C
g	Flash Point	103°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 19.7% (V) Lower explosion limit: 2.2% (V)
k	Vapor pressure	402.7 hPa at 20°C 1.356 hPa at 55°C
l	Vapor density	2.63
m	Relative density at 25°C	1.001-1.104
n	Solubility	Soluble in water and organic solvents
o	Partition coefficient: n-octanol/water	Log Pow: 0.84 at 20°C
p	Auto-ignition Temp.	206°C
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
10.3	**Possibility of Hazardous reactions**	**Vapors may form explosive mixture with air**
10.4	**Conditions to avoid**	Heat, Flames and sparks. Extremes of temperature and direct sunlight.
10.5	**Incompatible materials**	Oxidizing agents
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	20000 mg/kg
LC50-Inhalation-Rat	102 kg/l - 4 hr
LD50 Intraperitoneal-Mouse	9,718 mg/kg **Remarks**: Lungs, Thorax or Respiration: Chronic pulmonary edema, Kidney, Ureter, Bladder; changes in both tubules and glomeruli. Blood; changes in spleen
LD50-Dermal-Rabbit	>20,800 mg/kg
Skin corrosion/irritation	Human- Mild skin irritation – 7 days
Serious eye damage/eye irritation	Rabbit: Irritating to eyes – 24 hr Remarks: Mild Eye irritation
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)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	Headache, Nausea, Vomiting, Gastrointestinal disturbance, Central nervous system depression
Synergistic effect	No data available
RTECS:	Not available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

<u>To Fish:</u>
LC50-Oncorhynchus mykiss (rainbow trout) – 213 ,g/l – 96 hr
(OECD Test Guideline 203)

<u>To Daphnia and other aquatic invertebrates</u>
EC50- Daphnia magna (Water Flea) – 29 mg/l - 48 hr

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(OECD Test Guideline 202)

To Algae
EC50- Pseudokirchneriella subcapitata (green algae) >113.7 mg/l – 72 hr
(OECD Test Guideline 201)

12.2	**Persistence and degradability**	Aerobic: Result – Readily biodegradable (OECD Test Guideline 301D)
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**	An environment hazard cannot be excluded in the event of unprofessional handling or disposal. **Harmful to aquatic life**

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: 1164	Class: 3	Packing Group: II	
Proper shipping name:	Dimethyl Sulfide solution			
Marine Pollutant:	No			
Poison Inhalation Hazard:	No			
IMDG	UN-Number: 1164	Class: 3	Packing Group: II	EMS-No.: F-E, S-D
Proper shipping name:	Dimethyl Sulfide Solution			
Marine Pollutant:	No			
IATA	UN-Number: 1164	Class: 3	Packing Group: II	Dimethyl Sulfide
Proper shipping name:	Dimethyl Sulfide 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, Acute health hazard		
Massachusetts Right to Know components	Dimethyl Sulfide	CAS# 75-18-3	Rev. Date: 4/24/1993
Pennsylvania Right to Know components	Dimethyl Sulfide	CAS# 75-18-3	Rev. Date: 4/24/1993

	Propane-1,2-diol	CAS# 57-55-6	Rev. Date: 8/1/1989
New Jersey Right to Know components	Dimethyl Sulfide	CAS# 75-18-3	Rev. Date: 4/24/1993
	Propane-1,2-diol	CAS# 57-55-6	Rev. Date: 8/1/1989
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 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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