# Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 01, 2019

**1** Identification

Revision: March 01, 2019

	dentifier
	e: Dimethyl Yellow 0.2% w/v de: DY2002SS
·Recommer	nded use and restriction on use Inded use: Laboratory chemicals Is on use: No relevant information available.
• Manufactur AquaPhoen 860 Gitts Ru Hanover, P/ Phone: (717 Toll-Free: (8	ix Scientific, Inc. un Road A 17331
ChemTel In (800)255-39	<b>r telephone number:</b> c. 924 (North America) 3-0585 (International)
2 Hazard(s	) identification
<ul> <li>Classifica</li> </ul>	tion of the substance or mixture
Flam. Lig. 2	H225 Highly flammable liquid and vapor.
-	H319 Causes serious eye irritation.
· Label eler	
· GHS label	elements t is classified and labeled according to the Globally Harmonized System (GHS).
GHS02 GH	
GHS02 GH	S07
GHS02 GH	S07 d: Danger
GHS02 GH	S07 d: Danger tements:
GHS02 GH • Signal word • Hazard stat H225 Highly	S07 d: Danger tements: y flammable liquid and vapor.
GHS02 GH • Signal word • Hazard stat H225 Highly H319 Cause	S07 d: Danger tements:
GHS02 GH - Signal word - Hazard stat H225 Highly H319 Cause - Precaution P210	d: Danger tements: / flammable liquid and vapor. es serious eye irritation. ary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking.
GHS02 GH GHS02 GH Signal word Hazard stat H225 Highly H319 Cause Precaution P210 P233	d: Danger tements: / flammable liquid and vapor. es serious eye irritation. ary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed.
GHS02 GH - Signal word - Hazard stat H225 Highly H319 Cause - Precaution P210 P233 P240	d: Danger tements: / flammable liquid and vapor. es serious eye irritation. ary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment.
GHS02 GH - Signal word - Hazard star H225 Highly H319 Cause - Precaution P210 P233 P240 P241	d: Danger tements: / flammable liquid and vapor. es serious eye irritation. ary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.
GHS02 GH GHS02 GH Hazard stat H225 Highly H319 Cause Precaution P210 P233 P240 P241 P242	d: Danger tements: / flammable liquid and vapor. es serious eye irritation. ary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.
GHS02 GH GHS02 GH Hazard stat H225 Highly H319 Cause Precaution P210 P233 P240 P241 P242 P243	d: Danger tements: y flammable liquid and vapor. es serious eye irritation. ary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
GHS02 GH GHS02 GH Hazard stat H225 Highly H319 Cause Precaution P210 P233 P240 P241 P242	d: Danger tements: / flammable liquid and vapor. es serious eye irritation. ary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Wear protective gloves/protective clothing/eye protection/face protection. P280

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P303+P361+P353 If on sl	kin (or hair): Take off immediately all contaminated clothing. Rinse skin with
water/s	
P305+P351+P338 IF IN E	YES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present	t and easy to do. Continue rinsing.
P337+P313 If eye ir	ritation persists: Get medical advice/attention.
P370+P378 In case	of fire: Use for extinction: CO2, powder or water spray.
P403+P235 Store ir	n a well-ventilated place. Keep cool.
P501 Dispos	e of contents/container in accordance with local/regional/national/international
regulati	ions.

• Other hazards There are no other hazards not otherwise classified that have been identified.

#### **3 Composition/information on ingredients**

#### · Chemical characterization: Substances

· Components:		
64-17-5 Ethanol	<ul> <li>Flam. Liq. 2, H225</li> <li>Eye Irrit. 2A, H319</li> </ul>	99.98%
60-11-7 4-dimethylaminoazobenzene	Acute Tox. 3, H301 Carc. 2, H351 Skin Sens. 1, H317	0.02%

#### · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

#### **4 First-aid measures**

#### · Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

· After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- · Most important symptoms and effects, both acute and delayed:
- Causes eye irritation.

Breathing difficulty

Coughing

Causes mild skin irritation.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

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Dizziness Disorientation

Unconsciousness

· Danger: Danger of impaired breathing.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

#### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Alcohol resistant foam Water fog / haze Carbon dioxide Gaseous extinguishing agents Fire-extinguishing powder
- For safety reasons unsuitable extinguishing agents: Water stream.
- Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire.

Formation of toxic gases is possible during heating of

- · Advice for firefighters
- **Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective suit.
- Additional information: Eliminate all ignition sources if safe to do so. Use large quantities of foam as it is partially destroyed by the product. Cool endangered receptacles with water in flooding quantities.

## **6** Accidental release measures

- - See Section 13 for disposal information.

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#### 7 Handling and storage

#### · Handling

- **Precautions for safe handling:** Prevent formation of aerosols. Avoid splashes or spray in enclosed areas. Use only in well ventilated areas.
- Information about protection against explosions and fires: Highly flammable liquid and vapor.
   Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
   Flammable gas-air mixtures may be formed in empty containers/receptacles.

#### · Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles: Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.

- Information about storage in one common storage facility:
- Store away from foodstuffs.

Store away from oxidizing agents.

• Further information about storage conditions: Keep containers tightly sealed.

· Specific end use(s) No relevant information available.

#### 8 Exposure controls/personal protection · Control parameters · Components with limit values that require monitoring at the workplace: 64-17-5 Ethanol PEL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm REL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm TLV (USA) Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm Short-term value: 1000 ppm EL (Canada) EV (Canada) Long-term value: 1,900 mg/m<sup>3</sup>, 1,000 ppm LMPE (Mexico) Long-term value: 1000 ppm A3 · Exposure controls · General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. · Engineering controls: Provide adequate ventilation. · Protection of hands:

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

 Material of gloves Laminated film gloves. Nitrile rubber, NBR Neoprene gloves Butyl rubber, BR Not suitable are glove

• Not suitable are gloves made of the following materials: PVC gloves

PVA gloves

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Solvent resistant protective clothing
- Limitation and supervision of exposure into the environment No relevant information available.

9 Physical and chemical properties		
<ul> <li>Information on basic physical a</li> <li>Appearance:</li> </ul>	and chemical properties	
Form:	Liquid	
Color:	Clear	
· Odor:	Like alcohol	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
• Melting point/Melting range:	Not determined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	78 °C (172.4 °F)	
· Flash point:	13 °C (55.4 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	425 °C (797 °F)	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.	
· Explosion limits		
Lower:	3.5 Vol %	
Upper:	15 Vol %	
<ul> <li>Oxidizing properties:</li> </ul>	Not determined.	
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· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)	
· Density at 20 °C (68 °F):	0.81 g/cm <sup>3</sup> (6.76 lbs/gal)	
· Relative density:	Not determined.	
· Vapor density:	Not determined.	
· Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
<ul> <li>Other information</li> </ul>	No relevant information available.	

## **10 Stability and reactivity**

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions

Reacts violently with oxidizing agents.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Highly flammable liquid and vapor.

Toxic fumes may be released if heated above the decomposition point.

#### · Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

· Incompatible materials Oxidizers

#### · Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### 64-17-5 Ethanol

Oral LD50 7060 mg/kg (rat)

Inhalative LC50/4h 20000 mg/l (rat)

#### Primary irritant effect:

· On the skin:

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Based on available data, the classification criteria are not met.

Causes mild skin irritation.

• On the eye: Irritating effect.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

#### · NTP (National Toxicology Program):

Substance is not listed.

#### · OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

· Probable route(s) of exposure:

- Ingestion.
- Inhalation.

Eye contact.

- Skin contact.
- Acute effects (acute toxicity, irritation and corrosivity): Causes eye irritation.
- · Repeated dose toxicity: No relevant information available.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- · Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in

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compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	UN1170	
· UN proper shipping name · DOT · ADR/RID/ADN, IMDG, IATA	Ethanol solution ETHANOL SOLUTION	
Transport hazard class(es)		
DOT		
Class	3	
· Label	3	
· Class · Label	3 (F1) 3	
· IMDG, IATA		
· Class · Label	3 3	
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	II	
· Environmental hazards	Not applicable.	
<ul> <li>Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids 33 F-E,S-D	

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 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations

On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

5 Re	gulatory information
mix	fety, health and environmental regulations/legislation specific for the substance cture ted States (USA)
· SAI	RA
· Sec	tion 302 (extremely hazardous substances):
Sub	ostance is not listed.
· Sec	tion 355 (extremely hazardous substances):
Sub	ostance is not listed.
· Sec	tion 313 (Specific toxic chemical listings):
Sub	ostance is not listed.
· TSO	CA (Toxic Substances Control Act)
Sub	ostance is listed.
Eth	emicals known to cause cancer: anol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. 17-5 Ethanol
· Che	emicals known to cause developmental toxicity for females:
Sub	stance is not listed.
·Che	emicals known to cause developmental toxicity for males:
Sub	ostance is not listed.
Eth	emicals known to cause developmental toxicity: anol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.
64-	17-5 Ethanol
	A (Environmental Protection Agency):
Sub	ostance is not listed.
·IAR	C (International Agency for Research on Cancer):
· Car	nadian Domestic Substances List (DSL) (Substances not listed.):
Suk	ostance is listed.

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	information is based on our present knowledge. However, this shall not constitute a guarantee for an ific product features and shall not establish a legally valid contractual relationship.
ADR: I IMDG: DOT: I IATA: CAS: C LC50: LD50: VPVB: OSHA Flam. Acute Eye Irr Skin S Carc. 2 Sour Webs Webs OVerV Webs Patty Casa 978-C	site, European Chemicals Agency (echa.europa.eu) site, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home view/home.do) site, Chemical Abstracts Registry, American Chemical Society (www.cas.org) 's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 urett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN 0-07-176923-5.
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Tamp Toll F	ba, Florida USA 33602-2902 Free North America 1-888-255-3924 Intl. +01 813-248-0573 site: www.chemtelinc.com