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1 Identification · Product identifier · Trade name: Thymolphthalein Ind. 10%w/v · Product code: TH4610SS Recommended use and restriction on use · Recommended use: Laboratory chemicals · Restrictions on use: No relevant information available. · Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 · Emergency telephone number: ChemTel Inc. (800) 255-3924 (North America) 1 (813)248-0585 (International) (801) 2 Hazard(s) identification · Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin. Acute Tox. 3 H331 Toxic if inhaled. STOT SE 1 H370 Causes damage to the central nervous system and optic nerve. [•] Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS02 GHS06 GHS08 · Signal word: Danger · Hazard statements: H225 Highly flammable liquid and vapor. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H370 Causes damage to the central nervous system and optic nerve. · Precautionary statements:

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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.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P330	Rinse mouth.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
F 303 F 33 F F 330	present and easy to do. Continue rinsing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P337+P313	If eye irritation persists: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use for extinction: Alcohol resistant foam or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Other hazards	here are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Mixtures

· Components:

Components.		
67-56-1	Methanol	90%
	 ♦ Flam. Liq. 2, H225 ♦ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ♦ STOT SE 1, H370 	
125-20-2	3,3-bis(4-Hydroxy-5-isopropyl-o-tolyl)phthalide	10%

4 First-aid measures

[•] Description of first aid measures

· General information: Immediately remove any clothing soiled by the product. Take affected persons out into the fresh air. After inhalation: Supply fresh air. Seek immediate medical advice. Provide oxygen treatment if affected person has difficulty breathing.

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lf	experiencing respiratory symptoms: Call a poison center/doctor.
	fter skin contact:
	on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	skin irritation is experienced, consult a doctor.
	fter eye contact:
	emove contact lenses if worn.
	inse opened eye for several minutes under running water. Then consult a doctor.
	fter swallowing:
	inse out mouth and then drink plenty of water.
	o not induce vomiting; immediately call for medical help.
	lost important symptoms and effects, both acute and delayed:
	reathing difficulty
	ausea in case of ingestion.
	oughing
	auses eye irritation.
	auses mild skin irritation.
	astric or intestinal disorders when ingested.
	cidosis
	ausea
BI	lindness
	isorientation
	nconsciousness
·Da	anger:
	anger of impaired breathing.
To	oxic if swallowed, in contact with skin or if inhaled.
	auses damage to the central nervous system and optic nerve.
	ndication of any immediate medical attention and special treatment needed:
	ledical supervision for at least 48 hours.
	necessary oxygen respiration treatment.
	ater observation for pneumonia and pulmonary edema.
	medical advice is needed, have product container or label at hand.
	· · ·

Suitable extinguishing agents: Alcohol resistant foam Carbon dioxide Fire-extinguishing powder Gaseous extinguishing agents Water fog / haze
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.
Advice for firefighters
Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information:

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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

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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.

Keep respiratory protective device available.

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.

· 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.

Store in cool, dry conditions in well sealed receptacles.

• **Specific end use(s)** No relevant information available.

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8 Exposure c	ontrols/personal protection	
The following recommended	with limit values that require monitoring at the workplace: constituent is the only constituent of the product which has a P exposure limit.	EL, TLV or other
67-56-1 Methanol		
PEL (USA) Long-term value: 260 mg/m ³ , 200 ppm		
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV (USA)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI	
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin	
EV (Canada)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
LMPE (Mexico	Short-term value: 250 ppm Long-term value: 200 ppm PIEL, IBE	
· Ingredients w	th biological limit values:	
67-56-1 Methanol		
Tim	mg/L dium: urine ie: end of shift ameter: Methanol (background, nonspecific)	
The usual prec Keep away from Immediately re Wash hands by Store protective Do not inhale of Avoid contact w Engineering of Breathing equil Use suitable re NIOSH or EN a	ctive and hygienic measures: autionary measures for handling chemicals should be followed. In foodstuffs, beverages and feed. move all soiled and contaminated clothing. efore breaks and at the end of work. e clothing separately. ases / fumes / aerosols. with the eyes and skin. ontrols: Provide adequate ventilation. ipment: spiratory protective device when high concentrations are present. approved organic vapor respirator equipped with a dust/mist prefilter shou hands:	ld be used.
Protec	tive gloves	
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• Material of gloves Neoprene gloves

Neoprene gioves Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

- · Not suitable are gloves made of the following materials: PVA gloves
- Eye protection:

Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment
- No relevant information available.

9 Physical and chemical properties		
Information on basic physical and chemical properties Appearance: Form: Liquid		
Odor:	Alcohol-like	
Odor threshold:	Not determined.	
	Not determined.	
pH-value: Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	<22 °C (<71.6 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	

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Partition coefficient (n-octand	ol/water): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

· 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

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.

Reacts violently with oxidizing agents.

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 Oxidizing agents.

· Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

[·] Information on toxicological effects

- · Acute toxicity:
- Toxic in contact with skin. Toxic if inhaled.

Toxic if swallowed.

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)			
Oral	LD50	111 mg/kg	
Dermal	LD50	333 mg/kg	

Inhalative LC50/4h 3.33 mg/l

Primary irritant effect:

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

· On the eye: Causes eye irritation.

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

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

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NTP (National Toxicology Program):	
None of the ingredients are listed.	
OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	
Probable route(s) of exposure:	
Ingestion.	
Inhalation.	
Eye contact.	
Skin contact.	
Acute effects (acute toxicity, irritation and corrosivity):	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes mild skin irritation.	
Causes eye irritation.	
Causes damage to the central nervous system and optic nerve.	
Repeated dose toxicity: No relevant information available.	
Germ cell mutagenicity: Based on available data, the classification criteria a	re not met.
Carcinogenicity: Based on available data, the classification criteria are not m	iet.
Reproductive toxicity: Based on available data, the classification criteria are	not met.
STOT-single exposure: Causes damage to the central nervous system and of	optic nerve.
STOT-repeated exposure: Based on available data, the classification criteria	

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 product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

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

[·] Uncleaned packagings

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

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

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Transport information	
UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN1230
UN proper shipping name DOT ADR/RID/ADN IMDG, IATA	Methanol mixture METHANOL METHANOL MIXTURE
Transport hazard class(es)	
DOT	
Class Label	3 3
ADR/RID/ADN	
Class	3 (FT1)
Label IMDG	3+6.1
Class Label	3 3/6.1
IATA	
Class	3
Label	3 (6.1)
Packing group DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Flammable liquids 336 F-E,S-D

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

Not applicable.

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA
· Section 302 (extremely hazardous substances):
None of the ingredients are listed.
· Section 313 (Specific toxic chemical listings):
67-56-1 Methanol
· TSCA (Toxic Substances Control Act)
All ingredients are listed or exempt.
· Proposition 65 (California)
· Chemicals known to cause cancer:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for females:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for males:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity:
67-56-1 Methanol
· EPA (Environmental Protection Agency):
None of the ingredients are listed.
· IARC (International Agency for Research on Cancer):
None of the ingredients are listed.
· Canadian Domestic Substances List (DSL):
All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity – Category 3 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 **Sources** Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers