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Safety data sheet according to 1907/2006/EC, Article 31

revised on: 20.10.2021

Version number 3

Creation Date: 13.02.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
 Trade name: Phenolphthalein solution 1%
 Article number: 2761 CAS Number: Relevant CAS No. see chapter 3 Registration number This product is a mixture. REACH registration numbers see section 3. UFI: EXC0-H0Q8-V00F-SHSR 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Reagent for analysis Laboratory chemicals
 • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 D-71272 Renningen
Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de
· Further information obtainable from: Product management department
• 1.4 Emergency telephone number: National Poisons Information Service (Birmingham Centre) City Hospital Dudley Road Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66
SECTION 2: Hazards identification
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008
GHS02 flame
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
GHS08 health hazard
Muta. 2 H341 Suspected of causing genetic defects. Carc. 1B H350 May cause cancer.
GHS07
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iue name. File	nolphthalein solutio	on 1%	
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Eve Irrit 2	1319 Causes serious	eve irritation	(Conta. of pag
· 2.2 Label eler		- (FC) No 4070/2000	
		n (EC) No 1272/2008	
· Hazard pictog		ed according to the CLP regulation.	
	Jians		
〈y〉〈			
GHS02 GH	S07 GHS08		
· Signal word [Danger		
· Hazard stater			
	ammable liquid and v	/apour.	
	serious eye irritation.		
	ed of causing genetic	c defects.	
H350 May cau			
· Precautionary			
P210		heat, hot surfaces, sparks, open flames	s and other ignition sources. No
D244	smoking.	wast folgetrically contilating (lighting) again	mont
P241 P280		proof [electrical/ventilating/lighting] equip gloves/protective clothing/eye protection	
		hair): Take off immediately all contamina	
1 000 1 001 1	[or shower].	han). Take on inimediately an containing	
P305+P351+F		se cautiously with water for several minu	utes. Remove contact lenses, if
		sy to do. Continue rinsing.	
P501		ents/container in accordance with local/r	egional/national/international
	regulations.		
· 2.3 Other haz			
	BT and vPvB assess	ment	
· PBT: Not appl			
	Dicable.		
• vPvB: Not app			
• vPvB: Not ap			
	: Composition/ir	nformation on ingredients	
	-	nformation on ingredients	
SECTION 3 · 3.1 Substanc · CAS No. Desc	es cription	nformation on ingredients	
SECTION 3 · 3.1 Substanc · CAS No. Desc Ethanol 50–	es cription <100 %	nformation on ingredients	
SECTION 3 · 3.1 Substanc · CAS No. Desc Ethanol 50– CAS 64-1	es cription <100 % 7-5	nformation on ingredients	
SECTION 3 · 3.1 Substanc · CAS No. Desc Ethanol 50– CAS 64-1 EINECS 200	es cription <100 % 7-5 -578-6	nformation on ingredients	
SECTION 3 • 3.1 Substanc • CAS No. Dese Ethanol 50 CAS 64-1 EINECS 200 Reach 01-21	es cription <100 % 7-5	nformation on ingredients	
SECTION 3 • 3.1 Substanc • CAS No. Dese Ethanol 50 CAS 64-1 EINECS 200 Reach 01-21 • 3.2 Mixtures	es cription <100 % 7-5 -578-6 19457610-43-XXXX		ns
SECTION 3 • 3.1 Substanc • CAS No. Dese Ethanol 50 CAS 64-1 EINECS 200 Reach 01-21 • 3.2 Mixtures	es cription <100 % 7-5 -578-6 19457610-43-XXXX Mixture of substances	nformation on ingredients	ons.
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SECTION 3 • 3.1 Substanc • CAS No. Dese Ethanol 50– CAS 64-1 EINECS 200 Reach 01-21 • 3.2 Mixtures • Description: • Dangerous co CAS: 64-17-5 EINECS: 200– Reg.nr.: 01-21	es cription <100 % 7-5 -578-6 19457610-43-XXXX Mixture of substances omponents: 578-6 19457610-43-XXXX	s listed below with nonhazardous additio Ethanol Flam. Liq. 2, H225 Eye Irrit. 2, H319	95–<100

CAS: 77-09-8 phenolphthalein

• Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION	4: First aid mea	sures

• 4.1 Description of first aid measures

• General information: First aider needs to protect himself.

Immediately remove any clothing soiled by the product.

After inhalation:

Remove person from danger area.

- Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Flush contaminated skijn with soap and plenty of water.

After prolonged contact or any signs of skin changes (redness or other signs of inflammation) seek medical attention.

take care of a Possiblility of inhalation at the same time

- After eye contact:
- 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.

- If symptoms persist consult doctor.
- · Information for doctor: Please observe safety data sheet/label.
- 4.2 Most important symptoms and effects, both acute and delayed
- Gastric or intestinal disorders
- Dazed feeling
- Vertigo

Cramp

4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

Water spray, powder, carbon dioxide or foam. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet.
- · 5.2 Special hazards arising from the substance or mixture
- Combustible.

Ambient fire may liberate hazardous vapours.

- In a fire, CO can be released
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Avoid contact with eyes and skin.

- 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose of the material collected according to regulations.
6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight.

Apply the general protection and hygiene measures for the handling with chemicals.

Information about fire - and explosion protection:

Flammable gas-air mixtures may form in empty receptacles. Keep away from open flames, hot surfaces and sources of ignition. Fumes can combine with air to form an explosive mixture.

· 7.2 Conditions for safe storage, including any incompatibilities

Storage:

· Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

- Information about storage in one common storage facility:
- Away from combustible materials and sources of ignition and heat.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Storage class: 3

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

CAS: 64-17-5 Ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection:



Safety glasses

· Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

9.1 Information on basic physical and chemical properties General Information			
Form:	Fluid		
Colour: • Odour:	Colourless Alcohol-like		
PH-value at 20 °C:	~7		
Change in condition			
Melting point/freezing point:	-114 °C		
Initial boiling point and boiling range	: 78 °C (CAS: 64-17-5 Ethanol)		
Flash point:	23 - 60 °C		
· Flammability (solid, gas):	Not applicable.		
Ignition temperature:	425 °C (CAS: 64-17-5 Ethanol)		
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Product is not selfigniting.		
Explosive properties:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.		
Explosion limits:			
Lower:	3.5 Vol %		
Upper:	15 Vol %		
Vapour pressure at 20 °C:	59 hPa		
Density at 20 °C:	~0.79 g/cm ³		
-	Not determined.		
Relative density	Not determined.		
· Vapour density	Not determined.		
Evaporation rate	Not determined.		
Solubility in / Miscibility with			
water at 20 °C:	1,000 g/l		
Partition coefficient: n-octanol/water:	Not determined.		
Viscosity:			
Dynamic at 20 °C:	1.2 mPas		
Kinematic:	Not determined.		
Solvent content:			
Organic solvents:	95–<100 %		

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 VOC (EC)
 95–<100 %</th>

 Solids content:
 1–<2.5 %</th>

 • 9.2 Other information
 No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability Stable with proper storage and handling.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Forms explosive gas mixture with air.
- 10.4 Conditions to avoid Heat, flames and sparks
- 10.5 Incompatible materials: Avoid contact with other chemicals.
- · 10.6 Hazardous decomposition products:

In case of fire / burns, development of hazardous combustion gases or vapors possible.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 64-17-5 Ethanol

 Oral
 LD50
 7,060 mg/kg (rat)

 Inhalative
 LC50/4 h
 20,000 mg/l (rat)

· Primary irritant effect:

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Subacute to chronic toxicity: -
- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity
- Suspected of causing genetic defects.
- · Carcinogenicity
- May cause cancer.
- 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.

SECTION 12: Ecological information

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

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· 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· **vPvB:** Not applicable.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Observe local (country-specific) regulations and laws

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in compliance with the respective national regulations.

·Europ	· European waste catalogue		
HP3	HP3 Flammable		
HP4	4 Irritant - skin irritation and eye damage		
HP7	Carcinogenic		
HP11	Mutagenic		

· Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN1170
 · 14.2 UN proper shipping name · ADR · IMDG · IATA 	1170 ETHANOL (ETHYL ALCOHOL) mixture ETHANOL (ETHYL ALCOHOL) mixture ETHANOL mixture
 14.3 Transport hazard class(es) ADR 	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
Class	3 Flammable liquids.
Label	3
 14.4 Packing group ADR, IMDG, IATA 	III
· 14.5 Environmental hazards:	Not applicable.
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 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: 	Warning: Flammable liquids. 30 F-E,S-D
Stowage Category	A
· 14.7 Transport in bulk according to Annex II of	
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
 Transport category Tunnel restriction code 	3 D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1
· · · · ·	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1170 ETHANOL (ETHYL ALCOHOL) MIXTURE, 3, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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(Contd. of page 8) · Other regulations, limitations and prohibitive regulations · Substances of very high concern (SVHC) according to REACH, Article 57 CAS: 77-09-8 phenolphthalein • 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **SECTION 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. Application, use and handling of our products take place out of our control and are solely your responsibility. · Relevant phrases H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H361f Suspected of damaging fertility. · Department issuing SDS: Product management · Contact: Product management · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Muta. 2: Germ cell mutagenicity - Category 2 Carc. 1B: Carcinogenicity - Category 1B Repr. 2: Reproductive toxicity - Category 2 * Data compared to the previous version altered.