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SECTION 1: Identification of the substance/mixtur undertaking	e and of the company/
· 1.1 Product identifier	
· Trade name: <u>Testomat-Indikator Typ 320</u> · UFI: MJVY-AHYA-S10V-FP7H	
 • 1.2 Relevant identified uses of the substance or mixture and use No further relevant information available. • Application of the substance / the preparation: Reagent for analysis EuPCS: PC-TEC-19 Reagents and laboratory chemical 	es advised against
 • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Gebrüder Heyl Analysentechnik GmbH & Co. KG Orleansstraße 75 b D-31135 Hildesheim • Further information obtainable from: product safety department 	Phone +49 (0) 5121 2893390 Fax +49 (0) 5121 2893367 E-mail info@heylanalysis.de Internet www.heylanalysis.de
• 1.4 Emergency telephone number: Giftinformationszentrum Nord Phone +49 (0) 551 19240	
SECTION 2: Hazards identification	
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS07 Eye Irrit. 2 H319 Causes serious eye irritation. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation Hazard pictograms GHS07 Signal word Warning 	
 Hazard statements Hazard statements Precautionary statements P280 Wear protective gloves/protective clothing/eye pro P305+P351+P338 IF IN EYES: Rinse cautiously with water for several lenses, if present and easy to do. Continue rinsing P337+P313 If eye irritation persists: Get medical advice/attention Labelling of packages where the contents do not exceed 125 mI Hazard pictograms GHS07 	eral minutes. Remove contact
· Signal word Warning	(Contd. on page 2)

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- · Hazard statements Void
- Precautionary statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· Determination of endocrine-disrupting properties Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Mixture of substances listed below with nonhazardous additions according to Regulation (EC) No 1272/2008.

· Dangerous components:				
CAS: 25322-68-3 NLP: 500-038-2 Reg.nr.: 01-2119958801-32	Polyethylene glycol substance with a Community workplace exposure limit	25 – 50%		
CAS: 110-97-4 EINECS: 203-820-9 Index number: 603-083-00-7 Reg.nr.: 01-2119475444-34	1,1'-iminodipropan-2-ol	10 – 25%		
CAS: 102-71-6 EINECS: 203-049-8 Reg.nr.: 01-2119486482-31	Triethanolamine substance with a Community workplace exposure limit	2.5 – 10%		
CAS: 60-00-4 EINECS: 200-449-4 Index number: 607-429-00-8 Reg.nr.: 01-2119486399-18	edetic acid	≥ 2.5 - < 10%		
CAS: 547-58-0 EINECS: 208-925-3	sodium 4-(4-dimethylaminophenylazo) benzenesulphonate � Acute Tox. 3, H301	≤1%		

· SVHC Not applicable.

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

SECTION 4: First aid measures

· 4.1 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.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eve contact:

Rinse opened eye for several minutes under running water. Then consult a doctor. • After swallowing:

A person vomiting while laying on their back should be turned onto their side. Rinse out mouth and then drink plenty of water. Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear personal protection equipment.
- · 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). Dispose of the material collected according to regulations. Clean the affected area carefully; suitable cleaners are: Warm water

- 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 Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- 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: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Protect from heat and direct sunlight.
- Store receptacle in a well ventilated area.
- · Recommended storage temperature: 15 25 °C
- Storage class:
- Storage class 10: Combustible liquids that cannot be assigned to any other storage classes (TRGS 510)
- · 7.3 Specific end use(s) No further relevant information available.

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GEBRÜDER HEYL

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		_
8.1 Control para	meters	
Ingredients with	limit values that require monitoring at the workplace:	
	3 Polyethylene glycol	
	Long-term value: 200 E mg/m³ 2(II);DFG, Y	
CAS: 102-71-6 T	riethanolamine	
AGW (Germany)	Long-term value: 1 E mg/m³ 1(I);DFG, Y	
CAS: 60-00-4 ed	etic acid	
MAK (Germany)	vgl.Abschn.IIb	
8.2 Exposure co		
Appropriate eng Individual protec	ineering controls No further data; see section 7. ction measures, such as personal protective equipment ve and hygienic measures:	
The usual precau Keep away from f	tionary measures are to be adhered to when handling chemicals. foodstuffs, beverages and feed.	
	ove all soiled and contaminated clothing ore breaks and at the end of work.	
	h the eyes and skin.	
	smoke or sniff while working.	
In case of brief exposure use self	iratory protective device when aerosol or mist is formed. Filter: Type A xposure or low pollution use respiratory filter device. In case of intensive or long f-contained respiratory protective device.	yer
Hand protection	tive gloves	
Wear gloves acco	ording to EN 374.	
preparation.	rial has to be impermeable and resistant to the product/ the substance/ t	
degradation	glove material on consideration of the penetration times, rates of diffusion and t gloves prior to each use for their proper condition.	he
Preventive skin pl	rotection by use of skin-protecting agents is recommended. as apply skin-cleaning agents and skin cosmetics.	
The selection of the of quality and variation	he suitable gloves does not only depend on the material, but also on further mai ies from manufacturer to manufacturer. A of glove material	'ks
The exact break to has to be observe	through time has to be found out by the manufacturer of the protective gloves a ed.	nd
Nitrile rubber, NB		
Recommended th	nickness of the material: \geq 0.4 mm	
Value for the perm	<pre>meation: Level = 6 (> 480 min) om splashes gloves made of the following materials are suitable:</pre>	

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Recommended thickness of the material: \geq 0.12 mm Value for the permeation: Level = 2 (> 30 min)Eye/face protection

Tightly sealed goggles according to EN 166

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and c	homical properties	
· General Information	nemical properties	
· Physical state	Fluid	
· Colour:	Green	
· Odour:	Characteristic	
	Not determined.	
Odour threshold:		
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and		
boiling range	Undetermined.	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Undetermined.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
рН (100 g/l) at 20 °C	9.7	
Viscosity:		
Kinematic:	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Fully miscible.	
Partition coefficient n-octanol/water (log		
value)	Not determined.	
Vapour pressure:	Not determined.	
Density and/or relative density		
Density at 20 °C:	1.11 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
· · ·		
9.2 Other information		
Important information on protection of	health	
and environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Solvent content:		
VOCV (CH)	0.0 %	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical h	azard	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void Void	
ACI 03013		
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		(Contd. of page 5
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

Exothermic neutralisation reaction with acids.

Under certain conditions possible formation of nitrosamines in the presence of nitrites or reagents causing nitrosation.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Acids, nitrites, reagents causing nitrosation.

Do not use tools made of aluminium or copper or their alloys.

• 10.6 Hazardous decomposition products: Nitrogen oxides

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

CAS: 253	22-68-3 Pc	olyethylene glycol	
Oral	LD50	> 2,000 mg/kg (rat)	
Dermal	LD50	> 2,000 mg/kg (rat)	
CAS: 110-	-97-4 1,1'-i	iminodipropan-2-ol	
Oral	LD50	> 2,000 mg/kg (rat)	
Dermal	LD50	> 8,000 mg/kg (rabbit)	
CAS: 102-71-6 Triethanolamine			
Oral	LD50	> 2,000 mg/kg (rat)	
Dermal	LD50	> 2,000 mg/kg (rabbit)	
CAS: 60-0	0-4 edetic	acid	
Oral	LD50	> 2,000 – 4,500 mg/kg (rat)	
Inhalative	LC50/6 h	1,000 – 5,000 mg/l (rat)	
CAS: 547-58-0 sodium 4-(4-dimethylaminophenylazo)benzenesulphonate			
Oral	LD50	60 mg/kg (rat)	
			(Contd. on page



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- · 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.
- · 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.
- · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · 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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· Uncleaned packaging:

[•] Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

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

SECTION 14: Transport inform	ation	
 14.1 UN number or ID number ADR, ADN, IMDG, IATA 	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
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	(Contd. of page 7
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
• Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

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.

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals None of the ingredients is listed.

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.

REGULATION (EU) 2024/590 on substances that deplete the ozone layer

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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•	Techni	cal ins	tructi	ions ((air):
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2.5 - 10



NK

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: O	ther 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. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H301 Toxic if swallowed. H319 Causes serious eye irritation.

· Department issuing SDS: product safety department

· Date of previous version: 13.05.2024

- · Version number of previous version: 15
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic

compounds) 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

Acute Tox. 3: Acute toxicity - Category 3

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

• * Data compared to the previous version altered.