	Hanna Instruments S.R.L.			Revision nr.3 EN Dated 27/03/2023 Printed on 13/04/2023
HANNA instruments	HI3822-0 -	Reage	nt Titrant Solution	Page n. 1 / 8 Replaced revision:2 (Dated 22/07/2019)
	1			
		Safe	ety Data Sheet	
SECTION 1. Identifica	tion of the substa	nce/mixtu	re and of the company/unde	ertaking
1.1. Product identifier				
Code Product name		HI3822-0 Reagent Tit	trant Solution	
1.2. Relevant identified uses or	f the substance or mixtu	ire and uses a	advised against	
Intended use		Determinati	ion of Sulfite in Water Samples.	
1.3. Details of the supplier of the	ne safety data sheet			
Name		Hanna Instruments S.R.L.		
Full address District and Country		str. Hanna I 457260	loc. Nusfalau	(Salaj)
		Tel.	Romania +40 260607700	
e-mail address of the competent person		Fax	+40 260607700	
responsible for the Safety D		msds@han	na.ro	
1.4. Emergency telephone nun				
For urgent inquiries refer to		Internationa hours/365 d	al: +1 7035273887 - UK, London: +44 2 days	2038073798 - CHEMTREC 24
SECTION 2. Hazards identifica	ation			
2.1. Classification of the substa	ance or mixture			
The product is not classified amendments and supplements		t to the provis	sions set forth in EC Regulation 1272/2	008 (CLP) (and subsequent
Hazard classification and in				
2.2. Label elements				
Hazard pictograms:				
Signal words:				
Hazard statements:				
Precautionary statements:				
2.3. Other hazards				
On the basis of available da	ata, the product does no	t contain any	PBT or vPvB in percentage ≥ than 0,1	%.
The product does not conta	in substances with endo	ocrine disrupti	ing properties in concentration $\ge 0.1\%$.	
SECTION 3. Composition/infor	rmation on ingredients			
3.2. Mixtures				
			zardous to human health or the environ s and supplements) in such quantities	

Hanna Instruments S.R.L. HI3822-0 - Reagent Titrant Solution

Revision nr.3 Jated 27/03/2023 Printed on 13/04/2023 Page n. 2 / 8 Replaced revision:2 (Dated 22/07/2019)

SECTION 4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

	Hanna Instruments S	Revision nr 3 Dated 27/03/2023 Printed on 13/04/2023 Page n. 3 / 8 Replaced revision:2 (Dated 22/07/2019)	EN	
HANNA instruments	HI3822-0 - Reagent Titrant Solution			
SECTION 7. Handling and	storage/>>			
7.3. Specific end use(s)				
Information not available				
	e controls/personal protection			
8.1. Control parameters				
Information not available				
8.2. Exposure controls				
Comply with the safety mea HAND PROTECTION	sures usually applied when handling chemical subs	stances.		
None required.				
SKIN PROTECTION None required.				
EYE PROTECTION				
None required. RESPIRATORY PROTECT	ION			
None required, unless indic	ated otherwise in the chemical risk assessment.			
ENVIRONMENTAL EXPOS	URE CONTROLS <pre>/ manufacturing processes, including those generat</pre>	ted by ventilation equipme	nt should be checked to ensure	
compliance with environme	•••••••••••••••••••••••••••••••••••••••	ted by ventilation equipment		
SECTION 9. Physical and che	nical properties			
9.1. Information on basic phys				
Properties Appearance	Value liquid	Informa	tion	
Colour	colourless			
Odour	odourless			
Melting point / freezing poin Initial boiling point	t not available not available			
Flammability	not available			
Lower explosive limit	not available			
Upper explosive limit Flash point	not available not applicable			
Auto-ignition temperature	not available			
Decomposition temperature				
рН	8,4		:ASTM D1293-18 rature: 25 °C	
Kinematic viscosity	not available			
Solubility	soluble in water			
Partition coefficient: n-octar Vapour pressure	ol/water not available 17,5 mmHg			
Density and/or relative dens				
Relative vapour density Particle characteristics	not available not applicable			
9.2. Other information				
9.2.1. Information with rega	rd to physical hazard classes			
Information not available				
9.2.2. Other safety characte	ristics			
Total solids (250°C / 482°F				
Explosive properties Oxidising properties	not applicable not applicable			
SECTION 10. Stability				
10.1. Reactivity				
There are no particular risks	of reaction with other substances in normal conditi	ions of use.		



Hanna Instruments S.R.L.

HI3822-0 - Reagent Titrant Solution

vision nr.3 ted 27/03/2023 nted on 13/04/2023 ge n. 4 / 8 placed revision:2 (Dated 22/07/2019) FN

SECTION 10. Stability and reactivity ... / >>

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class



Hanna Instruments S.R.L.

HI3822-0 - Reagent Titrant Solution

27/03/2023 on 13/04/2023 . 5 / 8 ion:2 (Dated 22/07/2019)

SECTION 11. Toxicological information ... / >>

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Information not available

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.



Hanna Instruments S.R.L. HI3822-0 - Reagent Titrant Solution

Revision nr.3 Dated 27/03/2023 Printed on 13/04/2023 Page n. 6 / 8 Replaced revision:2 (Dated 22/07/2019)

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 None

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters





Hanna Instruments S.R.L.

HI3822-0 - Reagent Titrant Solution

EN

SECTION 16. Other information ... / >>

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 09 / 11 / 12 / 15 / 16.