

Reagent 130+R0103

Revision date: 27.07.2023

Product code: 130+R0103

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Reagent 130+R0103

UFI:

ANM4-GRF0-E304-Q1RT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street: Place:	Stempelstraße 6 D-47167 Duisburg	
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMT	rous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling dipotassium disulphite

bis(4-hydroxy-N-methylanilinium) sulphate

Signal word: Pictograms:



Hazard statements

H317

May cause an allergic skin reaction.



according to Regulation (EC) No 1907/2006

Reagent 130+R0103 Revision date: 27.07.2023 Product code: 130+R0103 Page 2 of 12 H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P391 Collect spillage.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization Mixtures in aqueous solution

Mixtures in aqueous solu

Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
16731-55-8	dipotassium disulphite			5 - < 10 %
	240-795-3		01-2119537422-45	
	Eye Dam. 1, STOT SE 3; H318	•		
55-55-0	bis(4-hydroxy-N-methylanilinium) sulphate			1 - < 5 %
	200-237-1	650-031-00-4		
	Acute Tox. 4, Skin Sens. 1, STO H400 H410			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
16731-55-8	240-795-3	dipotassium disulphite	5 - < 10 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
55-55-0	200-237-1	bis(4-hydroxy-N-methylanilinium) sulphate	1 - < 5 %
	dermal: LD50 = > 1000 mg/kg; oral: LD50 = 565 mg/kg		

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.



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After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant Allergic reactions

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx) Sulphur oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8



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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Further information on storage conditions

Keep in a cool place.

storage temperature <= +8°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

DNEL/DMEL values

CAS No	Substance		-	
DNEL type		Exposure route	Effect	Value
16731-55-8	dipotassium disulphite			
Worker DNEL,	long-term	inhalation	systemic	263 mg/m³
Consumer DNE	EL, long-term	inhalation	systemic	78 mg/m³
Consumer DNEL, long-term		oral	systemic	10 mg/kg bw/day

PNEC values

CAS No	Substance		
Environmental compartment Value			
16731-55-8	55-8 dipotassium disulphite		
Freshwater 1,17		1,17 mg/l	
Marine water 0,12 mg/		0,12 mg/l	
Micro-organisms in sewage treatment plants (STP) 88,1 mg/l		88,1 mg/l	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Wear eye/face protection.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation



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Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and ch	emical properties				
Physical state:	Liquid				
Colour:	colourless				
Odour:	characteristic				
Odour threshold:	No data available				
Melting point/freezing point:		No data available			
Boiling point or initial boiling point and		No data available			
boiling range:					
Flammability:		No data available			
Lower explosion limits:		No data available			
Upper explosion limits:		No data available			
Flash point:		No data available			
Auto-ignition temperature:		No data available			
Decomposition temperature:		No data available			
pH-Value:		No data available			
Viscosity / kinematic:		No data available			
Water solubility:		completely miscible			
Solubility in other solvents		completely misciple			
No data available					
Partition coefficient n-octanol/water:		No data available			
Vapour pressure:		No data available			
Vapour pressure:		No data available			
Density:		1,063 g/cm ³			
Bulk density:		No data available			
Relative vapour density:	No data available				
9.2. Other information					
Information with regard to physical ha	zard classes				
Explosive properties					
No data available					
Sustaining combustion:		No data available			
Self-ignition temperature					
Solid: Gas:		No data available			
		No data available			
Oxidizing properties No data available					
Other safety characteristics					
Evaporation rate:		No data available			
Solvent separation test:		No data available			
Solvent content:		No data available			
Solid content:		No data available			
Sublimation point:		No data available			
Softening point:		No data available			
Pour point:		No data available			
No data available:					
Viscosity / dynamic: No data avai					
Flow time: No data availa					
Further Information					



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No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Keep in a cool place. Protect against: Heat

10.3. Possibility of hazardous reactions

Acid

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
16731-55-8	dipotassium disulphite					
	oral	LD50 mg/kg	> 2000	Rat	Study report (1974)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2009)	OECD Guideline 402
55-55-0	bis(4-hydroxy-N-methylanilinium) sulphate					
	oral	LD50 mg/kg	565	Mouse	ChemIDplusA TOXNET Database, 2017 (2017)	other: As mentioned below
	dermal	LD50 mg/kg	> 1000	Guinea pig	ChemIDplusA TOXNET Database, 2017 (2017)	other: As mentioned below

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.



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Sensitising effects

May cause an allergic skin reaction. (bis(4-hydroxy-N-methylanilinium) sulphate)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the preparation/mixture itself.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
16731-55-8	dipotassium disulphite						
	Acute fish toxicity	LC50 464 mg/l	> 215 - <	96 h	Leuciscus idus	Study report (1989)	other: German industrial standard test g
	Acute algae toxicity	ErC50 mg/l	43,8	72 h	Desmodesmus subspicatus	Study report (1989)	OECD Guideline 201
	Acute crustacea toxicity	EC50	89 mg/l	48 h	Daphnia magna	Study report (1990)	other: 79/831/EEC, appendix V, part C
	Fish toxicity	NOEC mg/l	>= 316	34 d	Danio rerio	Study report (2010)	OECD Guideline 210
	Crustacea toxicity	NOEC mg/l	> 10	21 d	Daphnia magna	Study report (1993)	OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209
55-55-0	bis(4-hydroxy-N-methylanilinium) sulphate						
	Acute fish toxicity	LC50 mg/l	0,925	96 h	Oryzias latipes	J-check (Japan Chemicals Collaborative K	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	0,506	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	other: Predicted data
	Acute crustacea toxicity	EC50 mg/l	0,724	48 h	Daphnia magna	REACh Registration Dossier	other: Predicted data

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
55-55-0	bis(4-hydroxy-N-methylanilinium) sulphate	0,79

BCF

CAS No	Chemical name	BCF	Species	Source
55-55-0	bis(4-hydroxy-N-methylanilinium) sulphate	3,162	Fish	REACh Registration D

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. There are no data available on the mixture itself.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Discharge into the environment must be avoided.



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Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bis(4-hydroxy-N-methylanilinium) sulphate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bis(4-hydroxy-N-methylanilinium) sulphate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bis(4-hydroxy-N-methylanilinium) sulphate)
<u>14.3. Transport hazard class(es):</u>	9
14.4. Packing group:	III
Hazard label:	9
Special Provisions:	274, 335, 969
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F



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Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 3082	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
	(bis(4-hydroxy-N-methylanilinium) sulphate)	
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	
Hazard label:	9	
Special Provisions:	A97 A158 A197	
Limited quantity Passenger:	30 kg G	
Passenger LQ:	Y964	
Excepted quantity:	E1	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	964 450 L	
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:	964	
IATA-max. quantity - Cargo:	450 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	
Danger releasing substance:	bis(4-hydroxy-N-methylanilinium) sulphate	
14.6. Special precautions for user		
No dangerous good in sense of this tra	insport regulation.	
14.7. Maritime transport in bulk according to	· •	
No dangerous good in sense of this transport regulation.		
SECTION 15: Regulatory information		
15.1 Safety health and environmental requ	lations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 3		
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	enile
Water hazard class (D):	2 - obviously hazardous to water	

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9.

Abbreviations and acronyms

Acute Tox: Acute toxicity Eye Dam: Eye damage Skin Sens: Skin sensitisation STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard



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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)