

Sulphanilamide N1 solution naphthylethylene diamine dihydrochloride for determination of nitrite							
Revision date: 22.08.2023	Product code: 05543		Page 1 of 11				
SECTION 1: Identification of the s	ubstance/mixture and of the compa	iny/undertaking					
	hthylethylene diamine dihydrochloride fo	or determination of nitrite					
UFI:	2WAG-P0PG-3005-FDJT						
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised a	against					
Use of the substance/mixture Laboratory chemicals Industrial uses: Uses of substar	nces as such or in preparations at industr in (administration, education, entertainme	ial sites					
-							
Do not use for private purposes							
1.3. Details of the supplier of the safe							
Company name:	AnalytiChem GmbH						
Street:	Stempelstraße 6						
Place:	D-47167 Duisburg						
Telephone:	0203/5194-0	Telefax: 0203/5194-290					
E-mail:	info@analytichem.de						
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117					
E-mail:	produktsicherheit@analytichem.de						
Internet:	www.analytichem.de						
Responsible Department:	Abteilung Produktsicherheit						
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerou Exposure, or Accident Call CHEMTRE 1-800-424-9300 Outside USA and Can accepted)	C Day or Night Within USA and Canada	i:				
Further Information inapplicable, this product is a m							

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Pictograms:

GB CLP Regulation

Signal word:

Warning



Hazard statements

H290

May be corrosive to metals.

Precautionary statements

ouulionaly olucomon	
P234	Keep only in original packaging.
P390	Absorb spillage to prevent material damage.



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P406

Store in a corrosion-resistant container with a resistant inner liner.

2.3. Other hazards No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

CAS No	Chemical name					
	EC No	Index No	Index No REACH No			
	Classification (GB CLP Regulation)					
7664-38-2	phosphoric acid	phosphoric acid				
	231-633-2	015-011-00-6	01-2119485924-24			
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H290 H302 H314 H318					

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

Specific Conc	Specific Conc. Limits, M-factors and ATE					
CAS No	EC No	Chemical name				
	Specific Conc. Limits, M-factors and ATE					
7664-38-2	231-633-2	phosphoric acid	5 - < 10 %			
	oral: ATE = 500 Irrit. 2; H319: >=) mg/kg_Skin Corr. 1B; H314: >= 25 - 100_Skin Irrit. 2; H315: >= 10 - < 25_Eye = 10 - < 25				

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.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

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. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.



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

Irritant

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: Phosphorus oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. 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

General advice

Corrosive to metals.

For non-emergency personnel

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

For emergency responders

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

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.



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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

Corrosive to metals.

Unsuitable container/equipment material: Metal, Light metal

Hints on joint storage

national regulations

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL



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DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
7664-38-2	phosphoric acid					
Worker DNEL,	acute	inhalation	local	2 mg/m³		
Worker DNEL,	long-term	inhalation	local	2,92 mg/m³		
Consumer DN	EL, long-term	inhalation	systemic	4,57 mg/m³		
Consumer DN	EL, long-term	inhalation	local	0,36 mg/m³		
Consumer DN	EL, long-term	oral	systemic	0,1 mg/kg bw/day		
Worker DNEL,	long-term	inhalation	systemic	10,7 mg/m³		

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

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

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

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm 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.



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Respiratory protection		
Respiratory protection necessary at:	aerosol or mist formation	
Environmental exposure controls		
Do not allow to enter into surface wa	ter or drains.	
ECTION 9: Physical and chemical pr	operties	
.1. Information on basic physical and ch	emical properties	
Physical state:	Liquid	
Colour:	colourless	
Odour:	odourless	
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	
	X	
Flash point:	ہ No data available	
Auto-ignition temperature:	No data available	
Decomposition temperature:		
pH-Value:	1,8	
Viscosity / kinematic:	No data available	
Water solubility:	completely miscible	
Solubility in other solvents		
No data available		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Dispersion stability:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density:	1,05 g/cm³	
Relative density:	No data available	
Bulk density:	No data available	
Relative vapour density:	No data available	
Particle characteristics:	No data available	
.2. Other information		
Information with regard to physical ha	zard classes	
Explosive properties		
	n aqueous solution in contact with metals.	
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	No data available	
	Aldelieve etch old	
Gas:	No data available	
	No data available	
Gas: Oxidizing properties	No data available	
Gas: Oxidizing properties Oxidizing Other safety characteristics	No data available No data available	
Gas: Oxidizing properties Oxidizing Other safety characteristics Evaporation rate:	No data available	
Gas: Oxidizing properties Oxidizing Other safety characteristics		



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Sublimation point:	No data available				
Softening point:	No data available				
Pour point:	No data available				
No data available:					
Viscosity / dynamic:	No data available				
Flow time:	No data available				
Further Information					

Further Information

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Alkali (lye) metals The product develops hydrogen in an aqueous solution in contact with metals.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Metal, Aluminium, iron and steel The product develops hydrogen in an aqueous solution in contact with metals.

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 GB CLP Regulation

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			
7664-38-2	phosphoric acid							
	oral	ATE 500 mg/kg						

Irritation and corrosivity

Based on available data, the classification criteria are not met. slightly irritant but not relevant for classification.



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	Sensitising effects Based on available data, the classification criteria are not met.									
-	Carcinogenic/mutagenic/toxic effects for reproduction Based on available data, the classification criteria are not met.									
-	gle exposure on available data, the cla	assification	criteria are	not me	t.					
-	eated exposure on available data, the cla	assification	criteria are	not me	t.					
Aspiratio r Based	hazard on available data, the cla	assification	criteria are	not me	t.					
	on on likely routes of exp are no data available on		ation/mixtur	e itself.						
Specific e	ffects in experiment on	an animal								
There	are no data available on	the prepara	ation/mixtur	e itself.						
	l information on tests are no data available on [.]	the prepara	ation/mixtur	e itself.						
	experience are no data available on	the prepara	ation/mixtur	e itself.						
	tion on other hazards									
	e disrupting properties are no data available on	the prepara	ation/mixtur	e itself.						
Other info										
Further infor										
There	are no data available on	the prepara	ation/mixtur	e itself.						
SECTION 12	: Ecological informat	ion								
12.1. Toxicity										
-	are no data available on	the mixture	itself.							
CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
7664-38-2	phosphoric acid			-						
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2010)	EU Method C.3			
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202			
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209			

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment



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according to UK REACH Regulation

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The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

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. There are no data available on the mixture itself.

12.7. Other adverse effects

Discharge into the environment must be avoided. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.

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 allow to enter into surface water or 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)

14.1. UN number or ID number:	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C1
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es):	8
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14.4. Packing group:	III	
Hazard label:	8	
Special Provisions:	223	
Limited quantity:	5 L	
Excepted quantity:	E1	
EmS:	F-A, S-B	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 1805	
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION	
<u>14.3. Transport hazard class(es):</u>	8	
14.4. Packing group:	III	
Hazard label:	8	
Special Provisions:	A3 A803	
Limited quantity Passenger:	1L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passeng		
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	5 L 856	
IATA-packing instructions - Cargo.	60 L	
	00 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOU	S: No	
SECTION 15: Regulatory informat	ion	
15.1. Safety, health and environmenta	I regulations/legislation specific for the substance or mixture	
EU regulatory information		
Information according to 2012/18/El	J Not subject to 2012/18/EU (SEVESO III)	
(SEVESO III):		
(, , , , , , , , , , , , , , , , , , ,		
National regulatory information		
Water hazard class (D):	1 - slightly hazardous to water	
SECTION 16: Other information		
Changes		
This data sheet contains change	es from the previous version in section(s): 3,9.	
Abbreviations and acronyms		
Met. Corr: Corrosive to metals		
Acute Tox: Acute toxicity		
Skin Corr: Skin corrosion		
Eye Dam: Eye damage		
Classification for mixtures and used	evaluation method according to GB CLP Regulation	
Classification C	lassification procedure	
Met. Corr. 1; H290 O	n basis of test data	

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.



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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.)