

Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter 4.1.1						
Revision date: 08.11.2022	Product code: 13358	3	Page 1 of 11			
SECTION 1: Identification of the substance/mixture and of the company/undertaking						
1.1. Product identifier Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter 4.1.1						
UFI:	WVY5-41SU-Q00P-08K0					
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised	<u>against</u>				
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	s (household).					
1.3. Details of the supplier of the safe	etv data sheet					
Company name: Street: Place:	Fa. Bernd Kraft GmbH Stempelstraße 6 D-47167 Duisburg					
Telephone: e-mail:	0203/5194-0 info@berndkraft.de	Telefax:0203/5194-290				
Contact person: e-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@berndkraft.de www.berndkraft.de Abteilung Produktsicherheit	Telephone:0203/5194-107/117				
1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)						
Further Information inapplicable, this product is a mixture REACH registration number see section 3						

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 1; H310 Acute Tox. 2; H300 Acute Tox. 2; H330 STOT RE 2; H373 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

GB CLP Regulation

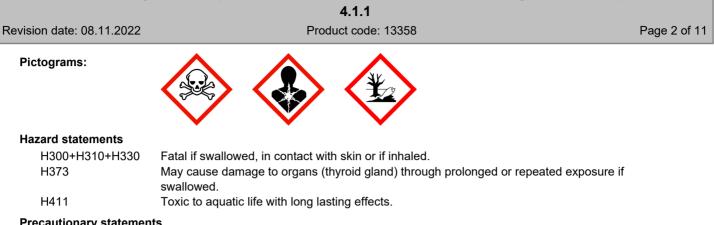
Hazard components for labelling mercury diiodide

potassium iodide

Signal word:



Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter



Precautionary statements

ecautionaly statement	
P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P361+P364 P405	Take off immediately all contaminated clothing and wash it before reuse. Store locked up.

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 REACH No		REACH No	
	Classification (GB CLP Regulation)			
7774-29-0	mercury diiodide			10 - < 15 %
	231-873-8	080-002-00-6		
	Acute Tox. 1, Acute Tox. 2, Acute T H330 H300 H373 H400 H410	Aquatic Chronic 1; H310		
7681-11-0	potassium iodide			5 - < 10 %
	231-659-4		01-2119906339-35	
	STOT RE 1; H372			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	c Chemical name	
	Specific Conc. I	Specific Conc. Limits, M-factors and ATE	
7774-29-0	231-873-8	231-873-8 mercury diiodide	
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: ATE = 5 mg/kg; oral: ATE = 5 mg/kg STOT RE 2; H373: >= 0,1 - 100	
7681-11-0	231-659-4	potassium iodide	5 - < 10 %
	oral: LD50 = 31	oral: LD50 = 3118 mg/kg	

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006



Revision date: 08.11.2022

according to UK REACH Regulation

Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter

Product code: 13358

4.1.1

Page 3 of 11

(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

Self-protection of the first aider

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

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

For Hg compounds applies: they act in a cytotoxic and protoplasmatoxic. Symptoms of poisoning: Eye contact leads to severe lesions. Ingestion and inhalation of dusts (acute): Diarrhea metallic taste, nausea, vomiting, abdominal pain, bloody diarrhea, intestinal burns, glottal edema, aspiration pneumonia, reduction in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure (chronic): Mouth inflammation with loss of teeth and mercurial line. Speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium

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: mercury and its compounds

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

Additional information

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



Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter

4.1.1

Revision date: 08.11.2022

Product code: 13358

Page 4 of 11

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

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.

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

Avoid exposure - obtain special instructions before use. Read label before use. Handle and open container with care. Do not breathe vapour/aerosol. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

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. Make available sufficient washing facilities 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.



Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter

4.1.1

Page 5 of 11

Revision date: 08.11.2022

Product code: 13358

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.

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed. Store in a place accessible by authorized persons only.

Hints on joint storage

national regulations

Further information on storage conditions

Store in a dry place. Protect against: Light

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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.

Do not breathe vapour/aerosol.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Wear eye/face protection.

Hand protection

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

Recommended glove articles: KCL 741 Dermatril® L Thickness of the glove 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 Thickness of the glove 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).



Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter

4.1.1

Revision date: 08.11.2022

Product code: 13358

Page 6 of 11

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

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

Physical state:	Liquid	
Colour:		
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point a	nd	No data available
boiling range:		
Flammability		
Solid/liquid:		No data available
Gas:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		not applicable
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		6,1
Viscosity / kinematic:		No data available
Water solubility:		No data available
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:		1,195 g/cm³
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available
9.2. Other information		
Information with regard to physic	al hazard classes	
Explosive properties		
No data available		
Sustaining combustion:		No data available
Self-ignition temperature		N N N N N N N N N N
Solid:		No data available
Gas:		No data available



Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter					
4.1.1					
Revision date: 08.11.2022	Product code: 13358	Page 7 of 11			
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 available				
Flow time:	No data available				
Further Information					
No data available					
SECTION 10: Stability and reactivity					
10.1. Reactivity					

No data available

10.2. Chemical stability

Protect against: Light

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Light

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 GB CLP Regulation

Toxicocinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

Acute toxicity

Fatal in contact with skin. Fatal if swallowed. Fatal if inhaled.

ATEmix calculated

ATE (oral) 37,7 mg/kg; ATE (dermal) 37,7 mg/kg; ATE (inhalation vapour) 3,77 mg/l; ATE (inhalation dust/mist) 0,377 mg/l



Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter

4.1.1

Revision date: 08.11.2022

Product code: 13358

Page 8 of 11

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
7774-29-0	mercury diiodide						
	oral	ATE	5 mg/kg				
	dermal	ATE	5 mg/kg				
	inhalation vapour	ATE	0,5 mg/l				
	inhalation dust/mist	ATE	0,05 mg/l				
7681-11-0	potassium iodide						
	oral	LD50 3118 mg/kg		Rat	Study report (1980)	OECD Guideline 401	

Irritation and corrosivity

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

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.

STOT-single exposure

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (mercury diiodide; potassium iodide)

Aspiration hazard

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

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

Further information

For Hg compounds applies: they act in a cytotoxic and protoplasmatoxic. Symptoms of poisoning: Eye contact leads to severe lesions. Ingestion and inhalation of dusts (acute): Diarrhea metallic taste, nausea, vomiting, abdominal pain, bloody diarrhea, intestinal burns, glottal edema, aspiration pneumonia, reduction in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure (chronic): Mouth inflammation with loss of teeth and mercurial line. Speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



Revision date: 08.11.2022

according to UK REACH Regulation

Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter

Product code: 13358

4.1.1

Page 9 of 11

CAS No	Chemical name						
	Aquatic toxicity	Dose	Dose		Species	Source	Method
7681-11-0	potassium iodide						
	Acute fish toxicity	LC50 mg/l	3780	96 h	Oncorhynchus mykiss	Publication (1995)	other: Protocol to d
	Acute crustacea toxicity	EC50 mg/l	1,27	48 h	Daphnia magna	Study report (2012)	OECD Guideline 202

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.

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 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.

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.

Do not allow to enter into surface water or drains.

Do not mix with other wastes.

Send to a physico-chemical treatment facility under observation of official regulations.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

UN 2024
MERCURY COMPOUND, LIQUID, N.O.S. (mercury diiodide)
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43 274
0
E5



Transport category:1Hazard No:66Tunnel restriction code:C/EInland waterways transport (ADN)14.1. UN number or ID number:UN 202414.2. UN proper shipping name:MERCUR14.3. Transport hazard class(es):6.114.4. Packing group:IHazard label:6.1Classification code:T4Special Provisions:43 274 80Limited quantity:0Excepted quantity:E5Marine transport (IMDG)I14.1. UN number or ID number:UN 202414.2. UN proper shipping name:MERCUR14.3. Transport hazard class(es):6.114.4. Packing group:IHazard label:6.1Marine transport (IMDG)I14.3. Transport hazard class(es):6.114.4. Packing group:IHazard label:6.1Marine pollutant:PSpecial Provisions:43, 66, 27Limited quantity:0Excepted quantity:E5EmS:F-A, S-AAir transport (ICAO-TI/IATA-DGR)I14.1. UN number or ID number:UN 2024	4.1.1 Product code: 13358 Page 10 of 11 Y COMPOUND, LIQUID, N.O.S. (mercury diiodide) 2
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Passenger LQ:ForbidderExcepted quantity:E5IATA-packing instructions - Passenger:	A18
Excepted quantity: E5 IATA-packing instructions - Passenger:	
IATA-packing instructions - Passenger:	
IATA-max. quantity - Passenger:	652
	1 L
IATA-packing instructions - Cargo:	
IATA-max. quantity - Cargo:	658
14.5. Environmental hazards	658 30 L
ENVIRONMENTALLY HAZARDOUS: Yes	
Danger releasing substance: mercury c	30 L
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legis	30 L

Lo regulatory information	
Restrictions on use (REACH, annex XVII):	
Entry 3, Entry 18	
Information according to 2012/18/EU	H1 ACUTE TOXIC
(SEVESO III):	
Additional information:	E2



Neßler's reagent R component A Potassium tetraiodomercurate Reag. Ph. Eur., chapter 4.1.1						
Revision date: 08.11.2022	Product code: 13358	Page 11 of 11				
Additional information SVHC substance.						
National regulatory information						
Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.						
Water hazard class (D):	3 - highly hazardous to water					

SECTION 16: Other information

Changes

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

Classification for mixtures and used evaluation method accordin	ng to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 1; H310	Calculation method
Acute Tox. 2; H300	Calculation method
Acute Tox. 2; H330	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and FUH statements (number and full text)

-			
	H300	Fatal if swallowed.	
	H300+H310+H330	Fatal if swallowed, in contact with skin or if inhaled.	
	H310	Fatal in contact with skin.	
	H330	Fatal if inhaled.	
	H372	Causes damage to organs (thyroid gland) through prolonged or repeated exposure if swallowed.	
	H373	May cause damage to organs (thyroid gland) through prolonged or repeated exposure if swallowed.	
	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.	

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.)