



**Neutron**®Pharmachemical Co.  
Manufacturer of Laboratory Chemical & Pharmaceutical Materials

## Safety Data Sheet

according to UK REACH Regulation

### Dragendorff's reagent

Revision date: 13.09.2022

Product code: 9.0040

Page 1 of 13

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

### 1.1. Product identifier

Dragendorff's reagent

### 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: NEUTRON PHARMACHEMICAL CO  
98, 9th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran.

Telephone: 021-66906732-3

Telefax: 021-66581408

e-mail: info@neutronco.com

Internet: www.neutronco.com

### 1.4. Emergency telephone number:

125

### 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

Skin Irrit. 2; H315

Eye Irrit. 2; H319

STOT RE 1; H372

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

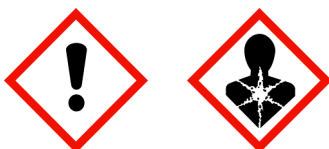
#### GB CLP Regulation

#### Hazard components for labelling

potassium iodide

Signal word: Danger

Pictograms:





Neutron®Pharmachemical Co.  
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## Safety Data Sheet

according to UK REACH Regulation

### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 2 of 13

#### Hazard statements

- H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H372 Causes damage to organs (thyroid gland) through prolonged or repeated exposure if swallowed.

#### Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### 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			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
64-19-7	acetic acid			10 - < 15 %
	200-580-7	607-002-00-6	01-2119475328-30	
	Flam. Liq. 3, Skin Corr. 1A; H226 H314			
7681-11-0	potassium iodide			10 - < 15 %
	231-659-4		01-2119906339-35	
	STOT RE 1; H372			
1304-85-4	bismuth subnitrate			1 - < 5 %
	Ox. Sol. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H272 H315 H319 H335			

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. Limits, M-factors and ATE	
64-19-7	200-580-7	acetic acid	10 - < 15 %
		inhalation: LC50 = 11,4 mg/l (vapours); oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25	
7681-11-0	231-659-4	potassium iodide	10 - < 15 %
		oral: LD50 = 3118 mg/kg	
1304-85-4		bismuth subnitrate	1 - < 5 %
		inhalation: LC50 = > 5,07 mg/l (dusts or mists); oral: LD50 = > 2000 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).



### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 3 of 13

## 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### 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

Dyspnoea

Gastrointestinal complaints

Vomiting

Circulatory collapse

Corneal opacity.

### 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

Combustible liquids

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

Acetic acid vapour

Hydrogen iodide (HI)

### 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.

Suppress gases/vapours/mists with water spray jet.



### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 4 of 13

## 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**

- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Keep container tightly closed.
- Use personal protection equipment. Use extractor hood (laboratory).
- Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

#### **Advice on protection against fire and explosion**

- Usual measures for fire prevention.
- In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### **Advice on general occupational hygiene**

- Keep away from food, drink and animal feedingstuffs.

#### **Further information on handling**

- Take off immediately all contaminated clothing and wash it before reuse.
- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.



### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 5 of 13

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed.

##### Hints on joint storage

national regulations

##### Further information on storage conditions

Keep away from heat.

#### 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/m <sup>3</sup>	fibres/ml	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	WEL
		20	50		STEL (15 min)	WEL

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
64-19-7	acetic acid			
Worker DNEL, long-term		inhalation	local	25 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	25 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	25 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	25 mg/m <sup>3</sup>
1304-85-4	bismuth subnitrate			
Worker DNEL, long-term		inhalation	systemic	2,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	0,67 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day



### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 6 of 13

#### PNEC values

CAS No	Substance	
Environmental compartment		Value
64-19-7	acetic acid	
Freshwater		3,058 mg/l
Freshwater (intermittent releases)		30,58 mg/l
Marine water		0,306 mg/l
Freshwater sediment		11,36 mg/kg
Marine sediment		1,136 mg/kg
Micro-organisms in sewage treatment plants (STP)		85 mg/l
Soil		0,47 mg/kg
1304-85-4	bismuth subnitrate	
Freshwater		0,137 mg/l
Freshwater (intermittent releases)		1,37 mg/l
Marine water		0,014 mg/l
Freshwater sediment		14176,5 mg/kg
Marine sediment		1417,7 mg/kg
Secondary poisoning		33,3 mg/kg
Micro-organisms in sewage treatment plants (STP)		17,5 mg/l
Soil		120,3 mg/kg

#### 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

Face protection umbrella

##### Hand protection

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

By long-term hand contact

Trade name/designation: KCL 730 Camatril® Velours

Suitable material: NBR (Nitrile rubber) 0,4 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 720 Camapren®

Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 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



### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 7 of 13

(e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

#### Skin protection

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

#### 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:	orange	
Odour:	stinging	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability		
Solid/liquid:		No data available
Gas:		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:		3,2
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:		1,11302 g/cm <sup>3</sup>
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 physical hazard classes

##### Explosive properties

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

##### Sustaining combustion:

Sustaining combustion

##### Self-ignition temperature

Solid:

No data available

Gas:

No data available



### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 8 of 13

Oxidizing properties  
No data available

#### Other safety characteristics

Evaporation rate:	No data available
Solvent separation test:	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

May be corrosive to metals.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

In case of warming: Vapours can form explosive mixtures with air.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Oxidising agent

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

Metal

#### 10.6. Hazardous decomposition products

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 mixture itself.

##### Acute toxicity

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

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.





## Safety Data Sheet

according to UK REACH Regulation

### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 9 of 13

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-19-7	acetic acid				
	oral	LD50 3310 mg/kg	Rat	J Ind Hyg Toxicol, Vol 23, PP 78-82 (194)	The sodium salt of acetic acid was admin
	inhalation (4 h) vapour	LC50 11,4 mg/l	Rat	Study report (1980)	OECD Guideline 403
7681-11-0	potassium iodide				
	oral	LD50 3118 mg/kg	Rat	Study report (1980)	OECD Guideline 401
1304-85-4	bismuth subnitrate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2012)	EU Method B.1 tris
	inhalation (4 h) dust/mist	LC50 > 5,07 mg/l	Rat	Study report (2010)	OECD Guideline 436

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### 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

Causes damage to organs through prolonged or repeated exposure. (potassium iodide)

#### Aspiration hazard

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

Observe risk of aspiration if vomiting occurs.

#### 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

Irritant

Dyspnoea

Gastrointestinal complaints

Vomiting

Circulatory collapse

Corneal opacity.

Risk of serious damage to eyes.



## Safety Data Sheet

according to UK REACH Regulation

### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 10 of 13

#### Further information

There are no data available on the mixture itself.

### SECTION 12: Ecological information

#### 12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64-19-7	acetic acid					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Oncorhynchus mykiss	Study report (2005)	other: SOP E257
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Skeletonema costatum	Study report (2005)	ISO 10253
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna	Study report (1990)	OECD Guideline 202
7681-11-0	potassium iodide					
	Acute fish toxicity	LC50 3780 mg/l	96 h	Oncorhynchus mykiss	Publication (1995)	other: Protocol to d
	Acute crustacea toxicity	EC50 1,27 mg/l	48 h	Daphnia magna	Study report (2012)	OECD Guideline 202
1304-85-4	bismuth subnitrate					
	Acute fish toxicity	LC50 > 137 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 137 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 137 mg/l	48 h	Daphnia magna	REACH Registration Dossier	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.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-19-7	acetic acid	-0,17

#### BCF

CAS No	Chemical name	BCF	Species	Source
64-19-7	acetic acid	3,16	fish	Environ. Toxicol. Ch

#### 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



### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 11 of 13

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**

Avoid release to the environment.

#### **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)**

<b><u>14.1. UN number or ID number:</u></b>	UN 2790
<b><u>14.2. UN proper shipping name:</u></b>	ACETIC ACID SOLUTION
<b><u>14.3. Transport hazard class(es):</u></b>	8
<b><u>14.4. Packing group:</u></b>	III
Hazard label:	8
Classification code:	C3
Special Provisions:	597 647
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

#### **Inland waterways transport (ADN)**

<b><u>14.1. UN number or ID number:</u></b>	UN 2790
<b><u>14.2. UN proper shipping name:</u></b>	ACETIC ACID SOLUTION
<b><u>14.3. Transport hazard class(es):</u></b>	8
<b><u>14.4. Packing group:</u></b>	III
Hazard label:	8
Classification code:	C3
Special Provisions:	597 647
Limited quantity:	5 L
Excepted quantity:	E1

#### **Marine transport (IMDG)**

<b><u>14.1. UN number or ID number:</u></b>	UN 2790
<b><u>14.2. UN proper shipping name:</u></b>	ACETIC ACID SOLUTION
<b><u>14.3. Transport hazard class(es):</u></b>	8
<b><u>14.4. Packing group:</u></b>	III
Hazard label:	8
Special Provisions:	-



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## Safety Data Sheet

according to UK REACH Regulation

### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 12 of 13

Limited quantity: 5 L  
Excepted quantity: E2  
EmS: F-A, S-B

#### Air transport (ICAO-TI/ATA-DGR)

**14.1. UN number or ID number:** UN 2790  
**14.2. UN proper shipping name:** ACETIC ACID SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8  
Special Provisions: A803  
Limited quantity Passenger: 1 L  
Passenger LQ: Y841  
Excepted quantity: E1  
ATA-packing instructions - Passenger: 852  
ATA-max. quantity - Passenger: 5 L  
ATA-packing instructions - Cargo: 856  
ATA-max. quantity - Cargo: 60 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

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 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly 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 according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT RE 1; H372	Calculation method

#### Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.  
H272 May intensify fire; oxidiser.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H372 Causes damage to organs (thyroid gland) through prolonged or repeated exposure if



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## Safety Data Sheet

according to UK REACH Regulation

### Dragendorff's reagent R Reag. Ph. Eur., chapter 4.1.1

Revision date: 13.09.2022

Product code: 27527

Page 13 of 13

swallowed.

H372

Causes damage to organs through prolonged or repeated exposure.

#### 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.

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