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SECTION	1: Identification of the su	ostance/mixture and of the company/undertaking
	duct identifier	
Product form		: Substance
Substance na	ime	: Potassium iodide
EC no		: 231-659-4
CAS No		: 7681-11-0
Type of produ	ıct	: Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry state only
Formula		: KI
Chemical stru	icture	:
Synonyms		 K antistrumin / asmofug E / ceoidodin / hydriocic acid, potassium / iodic acid, potassium salt / iodostin / jodid / K1-N / kali iodide / KI-N / knollide / NSC 77362 / pherajod / potassium iodide, briquettes / potassium monoiodide / potide / reagent A - chlorine (test kit) / Thyro-Block / thyrojod
1.2. Rel	evant identified uses of the sul	stance or mixture and uses advised against
1.2.1. Rel	evant identified uses	
Use of the sul	bstance/mixture	: Laboratory chemical
1.2.2. Use	es advised against	
No additional	information available	
1.2 Dot	ails of the supplier of the sofet	data abaat

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium iodide	(CAS No) 7681-11-0 (EC no) 231-659-4	≤ 100	Not classified

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SEC	SECTION 4: First aid measures			
4.1.	Description of first aid measures			
First-aid measures general		: Check the vital functions. Unconscious: maintain adequate airway and respiration. Resp arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim cons with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raise Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, a physical strain. Depending on the victim's condition: doctor/hospital.	ecious ed. m (no	
First-a	id measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service	е.	
First-a	id measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.		
First-a	id measures after eye contact	: Rinse with water. Take victim to an ophthalmologist if irritation persists.		
First-aid measures after ingestion		: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Give mi drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medica service if you feel unwell. Ingestion of large quantities: immediately to hospital.		
4.2.	Most important symptoms and e	cts, both acute and delayed		
Sympt	oms/injuries after inhalation	No effects known.		
Sympt	oms/injuries after skin contact	Slight irritation.		
Sympt	oms/injuries after eye contact	Slight irritation.		
Sympt	oms/injuries after ingestion	: No effects known.		
Chronic symptoms :		 ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Body temperature rise. Gastrointestinal complaints. Feeling of weakness. Loss of weight. Sleeplessness. Skin rash/inflammation. Irritation of the nasal mucous membranes. Runny nose. Respiratory difficulties. Possible oedema of the upper respiratory tract. Possible inflammation of the respiratory tract. Possible laryngeal spasm/oedema. Increased salivation. Inflammation/affection of the gums. Inflammation/damage of the eye tissue. Lacrimation Thyroid enlargement/affection. Enlargement of the lymph glands.)	

4.3. Indication of any immediate medical attention and special treatment needed No additional information available **SECTION 5: Firefighting measures** Extinguishing media 5.1. Suitable extinguishing media : Adapt extinguishing media to the environment. Unsuitable extinguishing media : No unsuitable extinguishing media known. 5.2. Special hazards arising from the substance or mixture : DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Reactions involving a Fire hazard fire hazard: see "Reactivity Hazard". : DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT Explosion hazard EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard". 5.3. Advice for firefighters : Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and Precautionary measures fire windows. **Firefighting instructions** : No specific fire-fighting instructions required. Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

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ISOLAB[®] chemicals

SECT	ION 6: Accidental release mea	sш		
6.1.	Personal precautions, protective eq	μιμ	ment and emergency procedures	
6.1.1.	For non-emergency personnel			
Protecti	ve equipment	:	Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.	
Emerge	ncy procedures	:	Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.	
Measur	es in case of dust release	:	In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.	
6.1.2. No addi	For emergency responders tional information available			
6.2.	Environmental precautions			
No addi	tional information available			
6.3.	Methods and material for containme	ent	and cleaning up	
For con	For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.			
Method	s for cleaning up	:	Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.	
6.4.	Reference to other sections			
No addi	tional information available			
SECT	ION 7: Handling and storage			
7.1.	Precautions for safe handling			
Precaut	ions for safe handling	:	Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.	
7.2.	Conditions for safe storage, includi	ng	any incompatibilities	
Storage	temperature	:	15 - 30 °C	
Heat an	d ignition sources	:	KEEP SUBSTANCE AWAY FROM: heat sources.	
Informa	tion on mixed storage	:	KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. metals. water/moisture.	
Storage	area	:	Store in a cool area. Store in a dry area. Store in a dark area. Limited time of storage. Store only in a limited quantity. May be stored under argon. Keep locked up. Meet the legal requirements. Store at room temperature.	
Special	rules on packaging	:	SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.	
Packag	ing materials	:	SUITABLE MATERIAL: cardboard. stainless steel. plastics. glass. MATERIAL TO AVOID: aluminium. copper. tin. nickel. bronze.	
7.3.	Specific end use(s)			
No addi	tional information available			
SECT	ION 8: Exposure controls/pers	on	al protection	
8.1.	Control parameters			
Potas	sium iodide (7681-11-0)			
Belaiu	m Limit value (mo	a/m	³) 0.1 mg/m ³ (lode et jodures (vapeur et aérosol):	

Potassium iodide (7681-11-0)				
Belgium	Limit value (mg/m³)	0.1 mg/m ³ (lode et iodures (vapeur et aérosol); Belgium; Time-weighted average exposure limit 8 h)		
Belgium	Limit value (ppm)	0.01 ppm (lode et iodures (vapeur et aérosol); Belgium; Time-weighted average exposure limit 8 h)		
USA - ACGIH	ACGIH TWA (ppm)	0.01 ppm (Iodides; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)		

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Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: natural rubber. neoprene. nitrile rubber. PVC. plastics

Hand protection:

Gloves

8.2.

Eye protection:

Safety glassess

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P3

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and c			
Physical state	: Solid		
Appearance	: Crystalline solid. Crystalline powder. Grains. Little spheres.		
Molecular mass	: 166.00 g/mol		
Colour	: Colourless to white. On exposure to air: yellow to brown.		
Odour	: Odourless.		
Odour threshold	: No data available		
рН	: 6.0 - 9.0 (50 g/l, H₂O, 20 °C)		
pH solution	: 5%		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: 685 °C (975 hPa)		
Freezing point	: No data available		
Boiling point	: 1325 °C (1013 hPa)		
Flash point	: Not applicable		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: < 0.01 hPa (20 °C)		
Relative vapour density at 20 °C	: No data available		
Relative density	: 3.13 g/cm ³		
Density	: 3.13 g/cm³ (20 °C)		
Solubility	: Soluble in water. Soluble in glycerol. Soluble in ammonia. Water: 143 g/100ml Ethanol: 2 g/100ml Acetone: 1.3 g/100ml		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		
9.2. Other information			
VOC content	: Not applicable		
Other properties	: Hygroscopic.		



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SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of harmful/irritant gases/vapours (iodine). Decomposes slowly on exposure to light and on exposure to air: release of harmful/irritant gases/vapours (iodine). Reacts violently on exposure to (strong) acids: release of corrosive products (hydrogen iodide). Reacts violently with (strong) oxidizers: release of harmful/irritant gases/vapours (iodine).

10.2. Chemical stability

Unstable on exposure to light. Unstable on exposure to air. Hygroscopic.

10.3.	Possibility of hazardous reactions				
No addit	No additional information available				
10.4.	Conditions to avoid				
No addit	No additional information available				
10.5.	Incompatible materials				
	tional information available				
10.6.	Hazardous decomposition products				

No additional information available

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Not classified

Potassium iodide (7681-11-0)		

SECTION 12: Ecological informa	tion
12.1. Toxicity	
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	 Mild water pollutant (surface water). Ground water pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100 - 1000 mg/l). Not harmful to algae (EC50 (72h) >1000 mg/l).
Potassium iodide (7681-11-0)	
LC50 fish 1	1788.85 mg/l (LC50; 96 h)
EC50 Daphnia 1	483.68 mg/l (LC50; 48 h)

12.2. Persistence and degradability

Potassium iodide (7681-11-0)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

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12.3.	Bioaccumulative potential	
Potas	sium iodide (7681-11-0)	
Bioac	cumulative potential	Not bioaccumulative.
12.4.	Mobility in soil	
No add	itional information available	
12.5.	Results of PBT and vPvB assessmen	t
No add	itional information available	
12.6.	Other adverse effects	
No add	itional information available	
SECT	ION 13: Disposal consideration	S
13.1.	Waste treatment methods	
Product	t/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Treat using the best available techniques before discharge into drains or the aquatic environment. Obtain the

Additional information

consent of pollution control authorities before discharging to wastewater treatment plants.
LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shippi	ng name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard	class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary information available						

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Potassium iodide is not on the REACH Candidate List Potassium iodide is not on the REACH Annex XIV List

VOC content

: Not applicable

15.1.2. National regulations

Germany

VwVwS Annex reference

WGK remark

- : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 3; ID No. 2660)
- : Classification water polluting based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 3)
- : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Netherlands

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations	and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
EC50	Median effective concentration	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product