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A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # P319

Potassium Iodide (KI)

Size: 100g





potassium iodide Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Identification of the substant	ce/mixture and of the company	/undertaking	g
1.1. Product identifier			
Product form	Substance		
Substance name	: potassium iodide		
EC-No.	231-659-4		
CAS-No.	: 7681-11-0		
Product code	258A_P319		
	: Pure substance,Hygroscopic substance dry state only	. Preventive mea	asures apply to the substance in
Formula	: KI		
Synonyms	: antistrumin / asmofug E / ceoidodin / hy iodostin / jodid / K1-N / kali iodide / KI-N iodide, briquettes / potassium monoiodid Block / thyrojod	/ knollide / NSC	77362 / pherajod / potassium
Product group	: Raw material		
BIG No	: 10621		
1.2. Relevant identified uses of the substance	or mixture and uses advised agai	nst	
1.2.1. Relevant identified uses Use of the substance/mixture :	Photographic chemical Food industry: auxiliary substance Reagent Pharmaceutical product: component Veterinary medicine		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety data s Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBiosciences.com			
1.4. Emergency telephone number Emergency number : Ch	emtrec 1-800-424-9300 (USA/Canada), +	-1-703-527-3887	7 (Inti)
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixture	9		
Classification according to Regulation (EC) No. 127	2/2008 [CLP]		
Not classified			
Adverse physicochemical, human health and environ To our knowledge, this product does not present any p practice. 2.2. Label elements		ordance with go	od occupational hygiene and safety
Labelling according to Regulation (EC) No. 1272/20 No labelling applicable	08 [CLP]		
2.3. Other hazards No additional information available			
SECTION 3: Composition/information on 3.1, Substances	ingredients		
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

3.2. Mixtures Not applicable

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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. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid 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 milk to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: No effects known.
Symptoms/effects after skin contact	: Slight irritation.
Symptoms/effects after eye contact	: Slight irritation.
Symptoms/effects 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 Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing media to the environment.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: DIRECT EXPLOSION HAZARD: No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: No specific fire-fighting instructions required.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measu 6.1. Personal precautions, protective equi	
6.1.1. For non-emergency personnel	
Protective 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.
Emergency 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.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	

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6.3. Methods and material for containment and cleaning up		
For containment	: Contain released product, 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.	
Methods 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.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		

SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions 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. Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions : Store in a well-ventilated place. Keep cool. Storage temperature : 15 - 30 °C : KEEP SUBSTANCE AWAY FROM: heat sources. Heat and ignition sources Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. metals. water/moisture. : Store in a cool area. Store in a dry area. Store in a dark area. Limited time of storage. Storage area Store only in a limited quantity. May be stored under argon. Keep locked up. Meet the legal requirements. Store at room temperature. : SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. opaque. correctly labelled. Special rules on packaging meet the legal requirements. Secure fragile packagings in solid containers. Packaging materials : SUITABLE MATERIAL: cardboard. stainless steel. plastics. glass. MATERIAL TO AVOID: aluminium. copper. tin. nickel. bronze. 7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available
8.2. Exposure controls
Appropriate engineering controls:
Ensure good ventilation of the work station.
Materials for protective clothing:
GIVE GOOD RESISTANCE: natural rubber. neoprene. nitrile rubber. PVC. plastics
Hand protection:
Gloves
Eye protection:
Safety glasses
Skin and body protection:
Protective clothing
Respiratory protection:
Dust production: dust mask with filter type P3
Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Crystalline solid. Crystalline powder. Grains. Little spheres.		
Molecular mass	: 166.01 g/mol		
Colour	: Colourless to white. On exposure to air: yellow to brown.		
Odour	: Odourless.		
Odour threshold	: No data available		
pH	: 6.0 - 9.0 (5.0 %)		
pH solution	: 5 %		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: 681 °C		
Freezing point	: Not applicable		
Boiling point	: 1330 °C		
Flash point	: Not applicable		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Non flammable.		
Vapour pressure	: < 0.01 hPa (20 °C)		
Relative vapour density at 20 °C	: No data available		
Relative density	: 3.1		
Density	: 3125 kg/m³		
Solubility	: Soluble in water. Soluble in glycerol. Soluble in ammonia.		
	Water: 144 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	: Not applicable		
9.2. Other information			
VOC content	: Not applicable		
Other properties	: Hygroscopic.		

SECTION 10: Stability and reactivity			
10.1. Reactivity			
On burning: release of harmful/irritant gases/vap	ours (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 harm	ful/irritant gases/vapours (iodine).		
10.2. Chemical stability	10.2. Chemical stability		
Unstable on exposure to light. Unstable on expo	sure to air. Hygroscopic.		
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal co	nditions of use.		
10.4. Conditions to avoid			
None under recommended storage and handling conditions (see section 7).			
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition product	S		
Hazardous decomposition products.			
SECTION 11: Toxicological informat	ion		
11.1. Information on toxicological effect			
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
potassium iodide (7681-11-0)			

LD50 oral rat

2779 mg/kg (Rat)

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3160 mg/kg (Rabbit)
Not classified
pH: 6.0 - 9.0 (5.0 %)
Not classified
pH: 6.0 - 9.0 (5.0 %)
Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).	
Ecology - water	: Mild water pollutant (surface water). Groundwater 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).	
Acute aquatic toxicity	: Not classified	
Chronic aquatic toxicity	: Not classified	
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	
12.3. Bioaccumulative potential		
potassium iodide (7681-11-0)		
Bioaccumulative potential	Not bioaccumulative.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects No additional information available		

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.
Product/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 consent of pollution control authorities before discharging to wastewater treatment plants.
Additional information	: LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.

SECTION 14: Transport inform	ation	
In accordance with ADR / RID / IMDG / IA	ATA / ADN	
14.1. UN number		
UN-No. (ADR)	: Not applicable	
UN-No. (IMDG)	: Not applicable	

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UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Transport regulations (ADR)	: Not subject
Transport by sea	
Transport regulations (IMDG)	: Not subject
Air transport	
Transport regulations (IATA)	: Not subject
Inland waterway transport	
No data available	
Rail transport	
Transport regulations (RID)	: Not subject
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable	

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

potassium iodide is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

potassium iodide is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content

: Not applicable

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15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. Chemical safety assessment No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.