SAFETY DATA SHEET (SDS)

lodine/KI, 1.5%

Issue date: 15-09-2025

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	lodine/KI solution, 1.5%
Product Codes:	MC26.1, MC26.2
Other means of identification:	
Chemical formula, alternative names:	KI _{3(aq)}
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Supplier's Name:	Southern Biological
Supplier's ABN:	94 630 703 810
Supplier's Address:	168 Fulham Road Alphington Victoria 3078 Australia
Supplier's Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561

Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Hazardous to the aquatic environment (acute) category 1 Acute toxicity (inhalation) category 4 Acute toxicity (oral) category 4
Label elements	
Hazard Pictograms:	environment exclamation mark
Signal Word:	Warning
Hazard Statements:	Very toxic to aquatic life Harmful if inhaled Harmful in contact with skin
Precautionary Statements:	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest. Avoid release to the environment.
Other Hazards	
Results of PBT and vPvB assessment:	PBT: Not applicable VPvB: Not applicable



Section 3: Composition/information on ingredients

Ingredients		
Name	CAS	Proportion
Water	7732-18-5	Balance
Potassium iodide	7681-56-2	3%
lodine	7553-56-2	1.5%

Section 4: First Aid Measures

Necessary first aid me	easures		
After inhalation:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; call a doctor.		
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs: Get medical advice/ attention.		
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
After swallowing:	Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor/physician if you feel unwell.		
Medical attention and special treatment			
Indications of any immediate medical attention and special treatment needed Treat symptomatically			

Section 5: Firefighting measures

Extinguishing media			
Suitable extinguishing equipment:		Use dry chemical, CO₂ or appropriate foam	
Specific hazards arising from the chemical:		Fire or excessive heat may produce iodine gas	
Advice for firefighters			
Special protective equipment and precautions:	Do not enter the fire area without proper protective equipment including respiratory equipment.		

Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	No health effects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS. Prevent the spread of any spill to minimise harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters.
Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.



Section 7: Handling and Storage

General Information		
Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Wash hands after use. Do not eat, drink or smoke when using this product. Wash contaminated clothing and protective equipment prior to entering eating area.	
Information about fire – and explosion protection:	No spe	ecial measures required.
Conditions for safe storage, including any incompatibilities.		
Storage:		Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use. Store in suitably labelled containers.
Requirements to be met by storerooms and receptacles:		No special requirements.
Information about storage in one common storage facility:		Not required.
Further information about storage conditions:		Keep container tightly sealed. Keep out of direct sunlight.

Section 8: Exposure controls/personal protection.

General information				
Additional information about design of technical facilities:		No further data: see section 7		
Control parameters:				
Ingredients with limit values th	hat require m	onitoring at the workplace:		
Name		STEL	TWA	
		mg/m³ ppm	mg/m³ ppm	Footnote
lodine		n/a	1 0.1	
Additional information	atmospheri should not measure of The STEL is for more th The exposu	Porkplace Exposure Standards are guides to be used in the control of occupational health hazards. All neric contamination should be kept to as low a level as is workable. These workplace exposure standards not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a ero frelative toxicity. L is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated er than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. osure value at the TWA is the average airborne concentration of a particular substance when calculated formal 8 hour working day for a 5-day working week.		
Exposure Controls:				
Keep away from foods Immediately remove a Wash hands before br		Use only in systems, proces Keep away from foodstuffs, Immediately remove all soil Wash hands before breaks Avoid contact with eyes.	beverages and feed. ed and contaminated clot	ich effective ventilation has been provided. hing
Respiratory protection: In case of significant exp		In case of significant exposu	osure use respiratory filter device. Not normally required.	
Clothing / Foot-wear and equipment No special requirements		No special requirements.		
Protection of hands: PVC or rubber gloves				
Eye protection: Tightly sealed goggles				
Skin protection: Laboratory Coat				



Section 9: Physical and chemical properties

Appearance:	
Form:	Liquid
Colour:	Dark brown
Odour:	Characteristic iodine
Odour Threshold:	Not determined
pH value:	6.4
Change in Condition:	
Melting point/Melting range:	113.9°C
Boiling point/Boiling range:	183.9°C
Flash point:	Not determined
Flammability (solid / gaseous)	Not determined
Ignition Temperature	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Not determined
Explosion limits	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	0.305 mmHg @ 25°C
Density:	Not determined
General Info	
Relative density:	Not determined
Vapour density:	8.8
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Miscible
Partition coefficient (n-octanol/water):	Log Pow (potassium iodide) 0.04 Log Pow (iodine) 2.49
Viscosity:	Not determined
Other information:	Not determined



Section 10: Stability and reactivity

Reactivity	
General	No further relevant information available.
Chemical Stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Elevated temperatures, light
Incompatible materials:	Water-reactive materials, strong oxidising agents, peroxides, metals (ferrous), acetaldehydes, rust, strong reducing agents, magnesium, sulphur, rubber, plastics, halogens
Hazardous decomposition products:	lodine (gas)

Section 11: Toxicological information

Information on toxicological effects				
Ingestion:	Stomach pains, vomiting	Stomach pains, vomiting		
Skin corrosion/irritation	Dermatitis, allergies			
Serious eye damage/irritation	Allergies, iodism			
Inhalation:	lodism			
Germ cell mutagenicity:	No evidence of a mutagenic effect			
Carcinogenicity:	Not listed as a carcinogen	Not listed as a carcinogen		
Reproductive toxicity:	No evidence of negative reproductive	No evidence of negative reproductive effects		
Specific target organ toxicity (STOT) – single exposure:	None known	None known		
Specific target organ toxicity (STOT) – repeated exposure:	Thyroid	Thyroid		
Aspiration hazard:	No information available	No information available		
Toxicology data for the components:				
Component	LD50 oral	LD50 dermal	LC50 inhalation	
Potassium iodide	2779 mg/kg (rat)	> 2000 mg/kg (rat)	No data	
lodine	315 mg/kg (rat)	1425 mg/kg (rabbit)	4.588 mg/L 4hr (rat)	

Section 12. Ecological information

Ecotoxicity	
Potassium iodide	Freshwater fish (Oncorhynchus mykiss) LC50: 3200 mg/L 120hr
lodine	Freshwater algae: EC50 = 0.13 mg/L 72hr Freshwater fish: LC50 = 1.67 mg/K 96hr Microtox: EC50 = 280 mg/L 3hr Water flea: EC50 = 0.55 mg/L 48hr



Persistence and degradability:	Miscible with water. Persistance is unlikely based on information available
Behaviour in environmental systems	
Bio-accumulative potential:	No further relevant information available.
Mobility in soil:	Will likely be mobile in the environment due to its water solubility
Additional ecological information	
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
Other adverse effects:	No further relevant information available.

Section 13. Disposal Considerations

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.
Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

Section 14. Transport information

Not classified as a Dangerous Good according to the Australian Code for the Transport of Danger	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous
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Section 15. Regulatory Information

Safety health and environmental regulations/legislation specific for the substance or mixture		
Australian Inventory of Chemical Substances:	Substances are listed.	
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.	

Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- End of SDS -

