SAFETY DATA SHEET

Creation Date 20-Oct-2009

Revision Date 23-Jul-2019

Revision Number 6

1. Identification			
Product Name	lodine		
Cat No. :	AC196560000; AC196560025; AC196560050; AC196561000; AC196565000		
CAS-No Synonyms	7553-56-2 No information available		
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use		

Details of the supplier of the safety data sheet

<u>Company</u>

Vinyl Kft 1097 Budapest Illatos út 19-23. ehsq@vinyl.hu

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous sys	stem (CNS).
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Liver, Blood, Thyroid.	

Label Elements

Signal Word

lodine

Danger

Hazard Statements Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation Harmful if inhaled May cause respiratory irritation

Causes damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray **Response** Get medical attention/advice if you feel unwell **Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell **Skin**

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
lodine	7553-56-2	>95

4. First-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically
	5. Fire-fighting measures
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available

Autoignition Temperature Explosion Limits

plosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Hydrogen iodide

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

	Health 3	Flammability 0	Instability 0	Physical hazards N/A		
		6. Accidental re	lease measures			
	Personal PrecautionsUse personal protective equipment. Ensure adequate ventilation. Avoid dust formation.Environmental PrecautionsDo not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.					
Methods for Up	Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.					
		7. Handling	and storage			
Handling			equipment. Ensure adequate ve on clothing. Avoid ingestion ar	entilation. Avoid dust formation. Do nd inhalation.		
Storage		Keep containers tightly close	sed in a dry, cool and well-ven	tilated place. Do not store in metal		

containers. Keep at temperatures below 25°C.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
lodine	TWA: 0.01 ppm STEL: 0.1 ppm	Ceiling: 0.1 ppm Ceiling: 1 mg/m ³ (Vacated) Ceiling: 0.1 ppm (Vacated) Ceiling: 1 mg/m ³	IDLH: 2 ppm Ceiling: 0.1 ppm Ceiling: 1 mg/m ³	TWA: 0.01 ppm STEL: 0.1 ppm

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties				
Physical State	Solid			
Appearance	Grey			
Odor	pungent			
Odor Threshold	No information available			
рН	5.1 saturated solution			
Melting Point/Range	113 °C / 235.4 °F			
Boiling Point/Range	185 °C/365 °F @ 760 mmHg			
Flash Point	No information available			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	0.41 hPa @ 25 °C			
Vapor Density	Not applicable			
Specific Gravity	No information available			
Bulk Density	~ 2100 kg/m ³			
Solubility	slightly soluble			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature				
Decomposition Temperature	No information available			
Viscosity	Not applicable			

Molecular Formula Molecular Weight				
	10. Stability and reactivity			
Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.			
Incompatible Materials	Strong oxidizing agents, Powdered metals, Ammonia, Alcohols, copper			
Hazardous Decomposition Product	s Hydrogen iodide			
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component Informa							
Component LD50 Oral LD50 Dermal LC50 Inhalation							
lodine		<u> </u>	315 mg/kg (Rat) 1425 mg/kg (Rabbit) 4.588 mg/L 4h (Rat)				
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Irritation Irritating to eyes, respiratory system and skin							
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	idicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS-No		NTP	ACGIH	OSHA	Mexico	
lodine	7553-56-		Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information av	ailable				
Reproductive Effects No information available.							
Developmental Effe	cts	No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single expos STOT - repeated exp			Respiratory system Central nervous system (CNS) Kidney Liver Blood Thyroid				
Aspiration hazard		No information ava	No information available				
Symptoms / effects delayed	,both acute	and No information ava	No information available				
Endocrine Disrupto	r Informatio	n No information ava	No information available				
Other Adverse Effect	ther Adverse Effects The toxicological properties have not been fully investigated.						
12. Ecological information							

Ecotoxicity

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Iodine	EC50 = 0.13 mg/L 72h	LC50 = 1.67 mg/L 96h	EC50 = 280 mg/L 3h	EC50 = 0.55 mg/L 48h
Persistence and Degrada	ability Persistence	is unlikely		

Bioaccumulation/Accumulation

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
lodine	2.49

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

	15 Deer
Packing Group	III
Subsidiary Hazard Class	6.1
Hazard Class	8
Proper Shipping Name	IODINE
UN-No	UN3495
IMDG/IMO	
Packing Group	III
Subsidiary Hazard Class	6.1
Hazard Class	8
Proper Shipping Name	IODINE
UN-No	UN3495
IATA	
Packing Group	iii
Subsidiary Hazard Class	6.1
Hazard Class	8
Proper Shipping Name	IODINE
UN-No	UN3495
TDG	•••
Packing Group	
Subsidiary Hazard Class	6.1
Proper Shipping Name Hazard Class	8
UN-No Dropor Shipping Name	UN3495 IODINE

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Iodine	7553-56-2	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CA	S-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
lodine	7553	3-56-2	Х	-	231-442-4	Х	-	Х	Х	KE-21023
.S. Federal Regulations										
ARA 313		Not app	licable							
ARA 311/312 Hazard Cate	gories	See sec	tion 2 for r	more infor	mation					
WA (Clean Water Act)	No		Not applicable							
Clean Air Act			Not applicable							
DSHA - Occupational Safety lealth Administration	and	Not applicable								
ERCLA	Not ap		licable							
alifornia Proposition 65		This pro	duct does	not conta	in any Prop	osition 65	chemicals			
J.S. State Right-to-Know Regulations										
••••••	Massachu	usetts		Jersey	Pennsy		Illir	nois	Rho	de Island
lodine	Х			x	X	(-		-

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

16. Other information

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Creation Date	20-Oct-2009
Revision Date	23-Jul-2019
Print Date	23-Jul-2019
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard
	replacing the current legislation under 29 CFR 1910.1200 to align with the Globally
	Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text