

HazTech Systems, Inc. SAFETY DATA SHEET

Revision number: 2 **Revision date:** 07/02/2015

1. IDENTIFICATION

Product name: Product code: Synonyms: CAS: RTECS # CI#: Recommended use: Uses advised against:

Company:

HazTech Systems, Inc. 3919 Bootjack Lane Mariposa, CA 95338 U.S.A. Telephone: 1-800-543-5487 / 1-209-966-8088 Fax: 1-209-966-8089 e-mail: sales@hazcat.com www.hazcat.com

Iodine RE2339 N/A 7553-56-2 NN1575000 Not available Laboratory chemicals, Manufacture of substances No information available

Chemical Emergencies: HazTech Systems, Inc. (8:00am - 5:00pm) PST 1-800-543-5487 Transportation Emergencies: Chemtrec 24-Hour 1-800-424-9300 (U.S.A.) 1-703-527-3887 (International)

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity , Inhalation (Category 4), H332 Acute toxicity , Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system , H335 Specific target organ toxicity - repeated exposure , Oral (Category 1), Thyroid , H372 Acute aquatic toxicity (Category 1), H400 For the full text of the H-Statements mentioned in this Section, see Section 16. GHS Label elements, including precautionary statements

Pictogram



Signal word Danger Hazard statement(s) H312 + H332 Harmful in contact with skin or if inhaled H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed. H400 Very toxic to aquatic life. Precautionary statement(s) Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P260 Wash skin thoroughly after handling. P264 P270 Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. P271 Avoid release to the environment. P273 P280 Wear eye protection/ face protection.

Product Code(s) RE2339 Iodine

2. HAZARDS IDENTIFICATIO	N
P280	Wear protective gloves/ protective clothing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON
	CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P312	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.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/ attention if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well -ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise classified	(HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		
Formula	:	I ₂
Molecular weight	:	253.81 g/mol
CAS -No.	:	7553 -56 -2
EC-No.	:	231 -442 -4
Index -No.	:	053 -001 -00 -3
TT 1		

Hazardous components

Component	Classification	Concentration
Iodine		
	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; STOT RE 1; Aquatic Acute 1; H312 + H332, H315, H319, H335, H372, H400	<=100 %
Eastha fall tart of the H. Statements mantices his this Section	,	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eve contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Hydrogen iodide

5. FIREFIGHTING MEASURES

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8. **Environmental precautions**

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. **Reference to other sections**

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Handle and store under inert gas. Hygroscopic.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects **Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Component	CAS -No.	Value	Control parameters	Basis	
Iodine	7553 -56 -2	CEIL	0.100000 ppm 1.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
		С	0.100000 ppm 1.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z -1 Limits for Air Contaminants	
	Remarks		mg/m3 is approximation is to be de termine	ate. d from breathing -zone air samples.	
		C	0.1 ppm 1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z -1 Limits for Air Contaminants	
		The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing -zone air samples.			
		C	0.100000 ppm 1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits	
		TWA	0.010000 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Upper Respiratory Tract irritation Hypothyroidism Not classifiable as a human carcinogen			
		TWA	0.010000 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Hypothyroidi	atory Tract irritation ism ole as a human carcin		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

STEL	0.100000 ppm	USA. ACGIH Threshold Limit Values (TLV)
Hypothyroidis	tory Tract irritation m e as a human carcino	gen

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. **Personal protective equipment**

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material : Nitrile rubb er

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material : Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Info	ormation on basic physical a	and chemical properties
a)	Appearance	Form: solid Colour: black, violet
b)	Odour	pungent
c)	Odour Threshold	No data available
d)	pН	5.4
e)	Melting point/freezing	Melting point/range : 113 °C (235 °F) - lit.
,	point	
f)	Initial boiling point and	184 °C (363 °F) - lit.
,	boiling range	
g)	Flash point	No data available
ĥ)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available
	flammability or	
	explosive limits	4 of 7

9.			
-	PHYSICAL AND CHEMICA	L PROPERTIES	
k)	Vapour pressure	0.41 hPa (0.31 mmHg) at 25 °C (77 °F)	
l)	Vapour density	8.76 - (Air = 1.0)	
, m)		4.930 g/cm^3	
n)	Water solubility	0.3 g/l at 25 °C (77 °F) - slightly soluble	
o)	Partition coefficient: n -	log Pow : 2.49 at 20 °C (68 °F)	
,	octanol/water		
p)	Auto-ignition	No data available	
17	temperature		
q)	Decomposition	No data available	
2	temperature		
r)	Viscosity	No data available	
s)	Explosive properties	No data available	
t)	Oxidizing properties	No data available	
Oth	ner safety information		
	Relative vapour density	8.76 - (Air = 1.0)	
10.	STABILITY AND REACTIV	VITY	
	activity		
	data available		
	emical stability		
	ole under recommended storag	e conditions.	
	sibility of hazardous reaction		
	data available		
	nditions to avoid		
No	data available		
	ompatible materials		
		lts., Sulphur compounds, Ammonia, Magnesium, Zinc, Aluminum, Metals, Alkalis,	
		des, chlorides, iodides, thiocyanates, ferrous salts, hypophosphites, morphine salts,	
		s, tartrates, Mixing iodine, antimony, and ammonia resulted in an explosion. A violent	
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11. TOXICOLOGICAL INFORMATION

	COLOGICAL INFORMATION				
Carcinoge	nicity				
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confi med human carcinogen by IARC.				
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a				
1111.	known or anticipated carcinogen by NTP.				
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a				
0011/1.	carcinogen or potential carcinogen by OSHA.				
Reproduce	tive toxicity				
No data av					
No data av					
Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation Respiratory system					
	rget organ toxicity - repeated exposure				
Specific target organ toxicity - repeated exposure Oral - Causes damage to organs through prolonged or repeated exposure Thyroid					
Aspiration					
No data av					
	Information				
	JN1575000				
	exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash,				
	se, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils,				
	ers and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from				
	distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers,				
	isually of short duration.				
	Irregularities - Based on Human Evidence				
	Irregularities - Based on Human Evidence				
	LOGICAL INFORMATION				
Toxicity Toxicity to	fish LC50 - Oncorhynchus mykiss (rainbow trout) - 1.7 mg/l - 96.0 h				
	Isin $LC50$ - Oncornynchus mykiss (rainbow trout) -1.7 mg/l -96.0 h daphnia and $EC50$ - Daphnia magna (Water flea) -0.2 mg/l -48 h				
other aquat					
invertebrat					
Toxicity to					
i chierty to	(OECD Test Guideline 201)				
Persistenc	e and degradability				
No data av					
	ulative potential				
No data av	-				
Mobility in					
No data av					
	PBT and vPvB assessment				
	assessment not available as chemical safety assessment not required/not conducted				
	erse effects				
Very toxic	to aquatic life.				
	mental hazard cannot be excluded in the event of unprofessional handling or disposal.				
	DSAL CONSIDERATIONS				
	tment methods				
Product					
	us and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste				
	vice to dispose of this material.				
1	ated packaging				
	as unused product.				
-	*				
	ISPORT INFORMATION				
DOT (US)					
UN numbe	r: 3495 Class : 8 (6.1) Packing group : III				

UN number: 3495 Class : 8(6.1)Proper shipping name : Iodine Reportable Quantity (RQ): Poison Inhalation Hazard : No

Product Code(s)	RE2339				
Iodine				Revision Date 0	7/02/15
14. TRANSPORT IN	FORMATION				
IMDG					
UN number : 3495	Class $: 8 (6.1)$	Packing group	: III	EMS-No: F-A, S-B	
Proper shipping name	: IODINE				
Marine pollutant:yes					
IATA					
UN number: 3495	Class : 8 (6.1)	Packing group	: III		
Proper shipping name	: Iodine				
15. REGULATORY I	NFORMATION				
SARA 302 Componen					
	aterial are subject to the report	ting requirements o	f SARA Title III	, Section 302.	
SARA 313 Componen					
	contain any chemical compone		AS numbers that	exceed the threshold (De	
	els established by SARA Title I	II, Section 313.			
SARA 311/312 Hazard					
Acute Health Hazard, (
Massachusetts Right	To Know Components			n	
x 1'			CAS -No.	Revision Date	
Iodine			7553 -56 -2	2007 -03 -01	
Pennsylvania Right T	o Know Components				
т 1'			CAS -No.	Revision Date	
Iodine	K O		7553 -56 -2	2007 -03 -01	
New Jersey Right To	Know Components				
т 1'			CAS -No.	Revision Date	
Iodine			7553 -56 -2	2007 -03 -01	
California Prop. 65 Co		to State of Californi	a to causo canco	r birth defects or any other	
reproductive harm.	contain any chemicals known	to State of Camorin	la to cause cance	r, birth delects, or any other	
-					
16. OTHER INFORM					
Acute Tox.	ents referred to under section Acute toxicity	ons 2 and 5.			
Aquatic Acute	Acute aquatic toxicity				
	Eye irritation				
	Harmful in contact with skin.				
	Harmful in contact with skin	or if inhaled			
H315	Causes skin irritation.				
H319	Causes serious eye irritation.				
H332	Harmful if inhaled.				
H335	May cause respiratory irritatio	n.			
H372	Causes damage to organs thro		repeated exposur	e if swallowed.	
H400	Very toxic to aquatic life.	0 r	1		
HMIS Rating	,				
Health hazard :	2				
Chronic Health Hazard					
Flammability :	0				
Physical Hazard	0				
NFPA Rating					
Health hazard :	2				
Fire Hazard :	0				
Reactivity Hazard :	0				
Revision Date:	07/02/20	015			
Prepared by:	HazTech	Systems, Inc.			
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This information is based on HazTech Systems, Inc.'s, 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.