

Safety Data Sheet

lodine GR ACS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Iodine GR ACS
Synonyms/Generic Names: None

Product Number: 2759

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information Call: 920-623-2140 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Target organ effect, Toxic by inhalation, Harmful by skin absorption, Skin sensitizer,

Corrosive

Target Organs: Thyroid, Respiratory system

Signal Word: Danger

Pictograms:



GHS Classification:

Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Skin corrosion	category 1B
Serious eye damage	category 1
Specific target organ toxicity-single exposure-Respiratory system	Category 3
Specific target organ toxicity-repeated exposure-thyroid	Category 1
Acute aquatic toxicity	Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

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H312+H332	Harmful in contact with skin or if inhaled.	
H314	Causes severe skin burns and eye damage.	
H335	May cause respiratory irritation.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	

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Precautionary Statements:

Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do not induce vomiting.
IF ON SKIN: Wash with plenty of water.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/physician.
Specific treatment is urgent (see first aid instruction on this label).
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local regulations.

Potential Health Effects

Eyes	Causes eye burns.
Inhalation	Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	Causes skin burns.
Ingestion	May be harmful if swallowed.

NFPA Ratings HMIS Ratings

Health	3
Flammability	0
Reactivity	0
Specific hazard	Not Available

Health	3
Fire	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
lodine	>99	7553-56-2	231-422-4	l ₂	253.81 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated
	clothing and wash using soap. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention.

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5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable)	Product is not flammable. Use appropriate media for adjacent fire. Cool	
extinguishing media	unopened containers with water.	
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for firefighters	clothing, including eye protection and boots.	
Specific hazards arising from	Emits toxic fumes (hydrogen iodide) under fire conditions. (See also	
the chemical	Stability and Reactivity section).	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment
	may be subject to federal/national or local reporting requirements.
Methods and materials for	Pick up and arrange disposal without creating dust. Sweep up and place
containment and cleaning up	in suitable, closed containers for disposal. Clean surfaces thoroughly with
	water to remove residual contamination. Dispose of all waste and cleanup
	materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
lodine	0.01 ppm 0.1 mg/m ³	TLV	ACGIH
	0.1 ppm 1 mg/m ³	STEL	ACGIH
	0.1 ppm 1 mg/m ³	STEL	OSHA
	0.1 ppm 1 mg/m ³	STEL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

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Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an
	approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Dark purple solid with metallic luster.
Odor	Pungent.
Odor threshold	Not Available
pH	5.4
Melting point/freezing point	113.7°C (236.7°F)
Initial boiling point and boiling range	184.4°C (363.9°F)
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	0.41 hPa (0.31 mmHg) at 25 °C (77 °F)
Vapor density	8.76 (Air = 1.0)
Density	4.93 (Water = 1)
Solubility (ies)	Easily soluble in diethyl ether. Soluble in methanol.
	Very slightly soluble in cold water, hot water.
Partition coefficient: n-octanol/water	log Pow: 2.49
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable	
Possibility of Hazardous Reactions	Will not occur.	
Conditions to Avoid	Heat, direct sunlight.	
Incompatible Materials	Rubber, plastics, iron and iron salts., sulfur compounds, ammonia, magnesium, zinc, aluminum, metals, alkalis, antimony salts, arsenites, bromides, chlorides, iodides, thiocyanates, ferrous salts, hypophosphites, morphine salts, oils, creosote, phosphates, tannins, tartrates, mixing iodine, antimony, ammonia, acetaldehyde, acetylene, acetaldehyde.	
Hazardous Decomposition Products	Hydrogen iodide.	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral - rat - 14,000 mg/kg

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Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified
	as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified
	as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation, redness, itchiness, rash.
Eyes	Irritation, redness, watering eyes, itchiness.
Respiratory	Irritation, coughing, wheezing, runny nose.
Ingestion	Irritation, nausea, vomiting, diarrhea.

Chronic Toxicity	Causes damage to the following organs: thyroid. May cause damage to the following organs: blood, kidneys, liver, skin, eyes.	
Teratogenicity	Not Available	
Mutagenicity	Not Available	
Embryotoxicity	Not Available	
Specific Target Organ Toxicity	Not Available	
Reproductive Toxicity	May cause adverse reproductive effects.	
Respiratory/Skin Sensitization	May cause allergic skin reaction.	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	LC50 - Oncorhynchus mykiss (rainbow trout) - 1.7 mg/l - 96.0 h
Aquatic Invertebrate	EC50 - Daphnia magna (Water flea) - 0.2 mg/l - 48 h
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

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14. TRANSPORTATION INFORMATION

US DOT	UN3495, Iodine, 8, (6.1), pg III
TDG	UN3495, IODINE, 8, (6.1), PG III
IMDG	UN3495, IODINE, 8, (6.1), PG III
Marine Pollutant	No
IATA/ICAO	UN3495, Iodine, 8, (6.1), pg III

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.	
DSCL (EEC)	All ingredients are listed on the DSCL inventory.	
California Proposition 65	Not Listed	
SARA 302	Not Listed	
SARA 304	Not Listed	
SARA 311	Acute Health Hazard, Chronic Health Hazard	
SARA 312	Acute Health Hazard, Chronic Health Hazard	
SARA 313	Not Listed	
WHMIS Canada	Class E: Corrosive material	
	Class D-2A: Poisonous and infectious material- Other effects- Very toxic	

16. OTHER INFORMATION

Revision	Date
Revision 1	04/12/2013
Revision 2	08/03/2015
Revision 3	10/23/2019

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