

# SAFETY DATA SHEET

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1. Identification			
Product identifier	SODIUM IODIDE, REAGE	ENT (ACS)	
Other means of identification			
Product code	1033		
CAS number	7681-82-5		
Recommended use	professional, scientific and t	echnical activities:	other professional, scientific and technical activities
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supp	lier/Distributor informatio	n	
Manufacturer			
Company name Address	GFS Chemicals, Inc. P.O. Box 245 Powell, OH 43065 United States		
Telephone	Phone	740-881-5501	
	Toll Free	800-858-9682	
Website	Fax www.gfschemicals.com	740-881-5989	
E-mail	service@gfschemicals.com		
Emergency phone number	Emergency Assistance	Chemtrec 800-42	24-9300
2. Hazard(s) identification	on		
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irr	itation	Category 2A
	Specific target organ toxicit	y, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicit exposure	y, repeated	Category 1
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Causes skin irritation. Cause damage to organs through		ation. May cause respiratory irritation. Causes ated exposure.
Precautionary statement			
Prevention	Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear protective gloves.		
Response	comfortable for breathing. I contact lenses, if present ar	f in eyes: Rinse ca nd easy to do. Con	ater. If inhaled: Remove person to fresh air and keep utiously with water for several minutes. Remove tinue rinsing. Call a POISON CENTER/doctor if you cal advice/attention. If eye irritation persists: Get

medical advice/attention. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage Disposal Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Hazard(s) not otherwise None known. classified (HNOC) Supplemental information

None.

# 3. Composition/information on ingredients

Substances			
Chemical name	Common name and synonyms	CAS number	%
SODIUM IODIDE		7681-82-5	100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	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 contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	None known.
Special 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.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. This product is miscible in water. Should not be released into the environment. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Protect from sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Lim Material		Value	Form
	Туре	Value	Form
SODIUM IODIDE (CAS 7681-82-5)	TWA	0.01 ppm	Inhalable fraction and vapor.
Biological limit values	No biological exposure limits noted for th	e ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station. Eye wash fountain and emergency showers are recommended.		
Individual protection measure	es, such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shields (or	goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant glove	es.	
Other	Wear appropriate chemical resistant cloth	ing. Use of an impervious	apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved respirator i exceeding the exposure limits. Wear resp		
Thermal hazards	Wear appropriate thermal protective cloth	ning, when necessary.	
General hygiene considerations	Always observe good personal hygiene m before eating, drinking, and/or smoking. remove contaminants.		

### 9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Crystalline powder.
Color	White.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	1203.8 °F (651 °C)
Initial boiling point and boiling range	2379.2 °F (1304 °C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or ex	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	very soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	3.67 g/cm3 estimated
Explosive properties	Not explosive.
Molecular formula	NaI
Molecular weight	149.92 g/mol
Oxidizing properties	Not oxidizing.
pH in aqueous solution	6 - 9 (5% solution)
Specific gravity	3.67

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Hygroscopic, protect from moisture and moist air. Decomposes on exposure to light.
Incompatible materials	Some oxidizers.
Hazardous decomposition products	Iodine gas.

### **11.** Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. Dust may irritate respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

Acute toxicity	Not known.		
Product	Species	Test Results	
SODIUM IODIDE (CAS 7681-82-5	5)		
Oral			
LD50	Rat	4340	
* Estimates for product may	be based on additional component data no	t shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizat	tion		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		

Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Not listed.	Evaluation of Carcinogenicity
	ed Substances (29 CFR 1910.1001-1050)
Not regulated. US. National Toxicology Pr	rogram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

# 12. Ecological information

Ecotoxicity
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The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
SODIUM IODIDE (CA	S 7681-82-5)			
Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	860 mg/l, 96 hours	

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	None known.
<b>Bioaccumulative potential</b>	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dilute waste in large quantities of water and flush into sewer connected to wastewater treatment system in compliance with applicable laws and regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

# DOT

Not regulated as dangerous goods.

# IATA

Not regulated as dangerous goods.

# IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

# 15. Regulatory information

JS federal regulations	ions This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Expor	t Notification (40 CFR 707, Subpt. D)		
Not regulated.			
CERCLA Hazardous Substa Not listed.	ince List (40 CFR 302.4)		
SARA 304 Emergency rele	ase notification		
Not regulated.			
-	ed Substances (29 CFR 1910.1001-1050)		
Not regulated.			
-	Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely haza	rdous substance		
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
SARA 313 (TRI reporting) Not regulated.			
ther federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollutants (HAPs) List		
	n 112(r) Accidental Release Prevention (40 CFR 68.130)		
Not regulated.	Not your late d		
Safe Drinking Water Act (SDWA)	Not regulated.		
S state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (F not known to contain any chemicals currently listed as carcinogens of	, ,	
nternational Inventories			
Country(s) or region	Inventory name	On inventory (yes/no)	
Australia	Australian Inventory of Chemical Substances (AICS)	Y	
Canada	Domestic Substances List (DSL)	Y	
Canada	Non-Domestic Substances List (NDSL)	1	
China	Inventory of Existing Chemical Substances in China (IECSC)	Y	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Y	
Europe	European List of Notified Chemical Substances (ELINCS)	1	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Y	
Korea	Existing Chemicals List (ECL)	Y	
New Zealand	New Zealand Inventory	Y	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Y	
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Y	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Y	
	nents of this product comply with the inventory requirements administered by t e components of the product are not listed or exempt from listing on the invent		

# 16. Other information, including date of preparation or last revision

Issue date	May-03-2013
Revision date	August-07-2017
Version #	03

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**Revision information**