

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/2/2024 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form Substance name	: Substance : SODIUM IODIDE	
CAS-No.	: 5681-82-5	
Product code	: ARF10061, ARF100	2
Formula	: I Na	2
1.2. Recommended use and restrictions		
Use of the substance/mixture	: Laboratory chemicals	
1.3. Supplier		
Alpha Resources LLC		
3090 Johnson Rd.		
Stevensville, Michigan 49127		
USA		
Г (269)465-5559		
info@alpharesources.com - www.alpharesource	com	
1.4. Emergency telephone number		
Emergency number	: CHEMTREC Emerge	ncy Phone Number: (800) 424-9300
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or m		
GHS US classification		
Skin corrosion/irritation Category 2	H3	5 Causes skin irritation
Serious eye damage/eye irritation Category 2A	H3	
Specific target organ toxicity (repeated exposure		5
Hazardous to the aquatic environment – Acute F		
Full text of H statements : see section 16		
2.2. GHS Label elements, including pred	utionary statements	
GHS US labeling	v	
Hazard pictograms (GHS US)		A A
fiazaru pietografis (GHS OS)		NV NV
	•	
Signal word (GHS US)	: Danger	
Hazard statements (GHS US)	: H315 - Causes skin in	
	H319 - Causes seriou	-
		e to organs through prolonged or repeated exposure
Descention of the sector of the LIC	H400 - Very toxic to	•
Precautionary statements (GHS US)		dust/fume/gas/mist/vapors/spray.
		prearms and face thoroughly after handling.
	P270 - Do not eat, dr P273 - Avoid release	nk or smoke when using this product.
		e gloves/protective clothing/eye protection/face protection.
		n: Wash with plenty of water.
		F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses.
	if present and easy to	-
		lvice/attention if you feel unwell.
		ent (see supplemental first aid instruction on this label).
		ritation occurs: Get medical advice/attention.
		ritation persists: Get medical advice/attention.
		contaminated clothing and wash it before reuse.
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P391 - Collect spillage.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients 3.1. Substances

Name	Product identifier	%	GHS US classification
SODIUM IODIDE (Main constituent)	CAS-No.: 7681-82-5		Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT RE 1, H372 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures 4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects (ac	cute and delayed)
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and special	treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing me	edia
Suitable extinguishing media 5.2. Specific hazards arising from the chemica	: Water spray. Dry powder. Foam.
Hazardous decomposition products in case of fire 5.3. Special protective equipment and precaut	: Toxic fumes may be released. ions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipmen	
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

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6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information refer to
section 8: "Exposure controls/personal protection".
l cleaning up
: Collect spillage.
: Mechanically recover the product.
: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including any	incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/pe	ersonal protection	
8.1. Control parameters		
SODIUM IODIDE (7681-82-5)		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pe	 Ensure good ventilation of the work station. Avoid release to the environment. rsonal protective equipment	
Hand protection:		
Protective gloves		
Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of insufficient ventilation, wear suitab	le respiratory equipment	
Personal protective equipment symbol(s):		



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SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties	
Physical state	: Solid
Appearance	: Powder.
Color	: white
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 661 °C
Freezing point	: Not applicable
Boiling point	: 1304 °C
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Very soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport. 10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information 11.1. Information on toxicological effects		
Acute toxicity (oral) :	Not classified	
Acute toxicity (dermal) :	Not classified	
Acute toxicity (inhalation) :	Not classified	
SODIUM IODIDE (7681-82-5)		
LD50 oral rat	4340	
LD50 dermal rat	> 2000	

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SODIUM IODIDE (7681-82-5)	
LC50 Inhalation - Rat	> 5000 mg/m ³
ATE US (oral)	4340 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

SECTION 12: Ecological information 12.1. Toxicity	
Ecology - general	: Very toxic to aquatic life.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations 13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information In accordance with DOT / TDG / IMDG / IATA 14.1. UN number	
DOT NA No	: UN3077
UN-No. (TDG)	: UN3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Environmentally hazardous substances, solid, n.o.s.
Proper Shipping Name (TDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
14.3. Transport hazard class(es)	
DOT	
Transport hazard class(es) (DOT)	: 9
Hazard labels (DOT)	: 9

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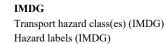
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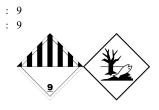


TDG

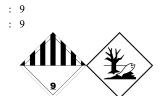
Transport hazard class(es) (TDG) Hazard labels (TDG)







IATA Transport hazard class(es) (IATA) Hazard labels (IATA)



14.4. Packing group	
Packing group (DOT)	: III
Packing group (TDG)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT	
UNIN (DOT)	LIN12077

UN-No.(DOT)

: UN3077

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DOT Special Provisions (49 CFR 172.102)		 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description my be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s." UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging. 844 - For transportation by motor vehicle, substances meeting the conditions for high viscosity flammable liquids as prescribed in §173.121(b)(1)(i), (b)(1)(ii), and (b)(1)(v) of this subchapter, may be reassigned to Packing Group III under the following conditions: Al12 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following BCS are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg: a. Metal: 11A, 11B, 11N, 21A, 21B and 21N b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2 e. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2 d. Fiberboard: 11G e. Wooden: 11C, 11D and 11F (with inner liners) f. Fiexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift- proof and water resistant or must be fitted with a sift-proof and water resistant finer). B54 - Open-top, sift-proof rail cars are also authorized. B120 - The use of flexible bulk containers conformin
		special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	155
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	213
DOT Packaging Bulk (49 CFR 173.xxx)		240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		No Limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)		No Limit
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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TDG

UN-No. (TDG)
TDG Special Provisions

: UN3077

: E1

: 171

16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety Marks.

2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act",99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport. (2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety. SOR/2014-306 UN3077, UN3082 SOR/2014-306 5 kg

Explosive Limit and Limited Quantity Index Excepted quantities (TDG) Emergency Response Guide (ERG) Number

IMDG

INDG	
Special provision (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP02, P002
Packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
IATA	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956

: A97, A158, A179, A197, A215

PCA limited quantity max net quantity (IATA)
PCA packing instructions (IATA)
PCA max net quantity (IATA)
CAO packing instructions (IATA)
CAO max net quantity (IATA)
Special provision (IATA)
ERG code (IATA)

400kg 956 400kg

: 9L

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SECTION 15: Regulatory information 15.1. US Federal regulations				
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				
Name	CAS-No.	Listing	Commercial status	Flags
SODIUM IODIDE	7681-82-5	Present	Active	
15.2. International regulations				

CANADA

SODIUM IODIDE (7681-82-5)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

SODIUM IODIDE (7681-82-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases		
H315	Causes skin irritation	
H319 Causes serious eye irritation		
H372 Causes damage to organs through prolonged or repeated exposure		
H400	Very toxic to aquatic life	

Safety Data Sheet (SDS), USA

This information is based on our 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.