



DEFENSE LOGISTICS AGENCY
DEFENSE NATIONAL STOCKPILE CENTER
8725 JOHN J. KINGMAN ROAD, SUITE 3229
FT. BELVOIR, VIRGINIA 22060-6223

IN REPLY
REFER TO:

DNOSC-CC

August 16, 2007

**AMENDMENT NO. 006
TO BASIC ORDERING AGREEMENT FOR
CRUDE IODINE
UNDER
DLA-IODINE-005**

The above referenced Basic Ordering Agreement for the sale of Crude Iodine is hereby amended to update various sections of the Basic Ordering Agreement as follows:

1. Section **A.3 Web Page (NOV 06)**, is hereby deleted and replaced with the following:

Section A.3 Web Page (AUG 07)

All requests for Quotes under this Agreement shall be posted each Thursday of each week on the DNOSC web site (<https://www.dnosc.dla.mil>) by 11:30 a.m., local time, Ft. Belvoir, VA. Quoters shall check the web site to determine if DNOSC is soliciting Quotes for the week.

2. Section **C.1 Submission of Quotes (JUL 03)**, as amended by Amendment No. 005, DELETE paragraphs **a.** and **h.** in their entirety and replace with the following:
 - a. The Government will post any material being offered for sale on its web site at <https://www.dnosc.dla.mil> each Thursday of each week by 11:30 a.m., local time, Ft. Belvoir, VA.
 - h. Quotes must be received by 10:00 a.m., local time, Ft. Belvoir, VA on the Tuesday following the offering and shall remain valid for two (2) business days after the time set for receipt of Quotes.
3. In Section **G - Contract Administration Data**, ADD the following as Section **G.15 (JAN 07)**:

G.15 Bankruptcy (JAN 07)

In the event the contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the contractor agrees to furnish, by certified mail or electronic commerce method authorized by the contract, written notification of the bankruptcy to the contracting officer responsible for administering the contract. This notification shall

be furnished within five days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed and the identity of the court in which the bankruptcy petition was filed.

4. Section **I.2 Shopping List (NOV 06)** is hereby deleted in its entirety and replaced with the attached Section **I.2 Shopping List (AUG 07)**.

5. **I.4 Certification Regarding Debarment, Suspension, Proposed Debarment, Environmental Compliance and Other Responsibility Matters (JUL 97)**

Delete this section in its entirety and replace with the following:

I.4 Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters (FEB 07)

a.(1) The Offeror certifies, to the best of its knowledge and belief, that—

(i) The Offeror and/or any of its Principals—

(A) Are are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(B) Have have not , within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and

(C) Are are not presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in paragraph a.(1)(i)(B) of this provision.

(ii) The Offeror has has not , within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.

(2) “Principals,” for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general

manager; plant manager; head of a subsidiary, division, or business segment, and similar positions).

This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.

- b. The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
 - c. A certification that any of the items in paragraph a. of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.
 - d. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph a. of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
 - e. The certification in paragraph a. of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.
6. Section **J.3 Material Safety Sheet (JUN 06)** is hereby deleted in its entirety and replaced with the attached Section **J.3 Material Safety Sheet (JUN 07)**.

7. Quoters shall acknowledge receipt of this Amendment by signing in the space provided below and returning a copy of this form along with their quote to:

ATTN: DNSC-R/Bid Custodian
Defense National Stockpile Center
8725 John J. Kingman Road, Suite 3229
Fort Belvoir, VA 22060-6223
Facsimile No. (703) 767-5541

Failure to acknowledge receipt of this Amendment may result in the quoter being considered ineligible for award. Except as provided herein, all other terms and conditions of DLA-IODINE-005 and amendments no. 001, 002, 003 and 005 remain unchanged and in full force and effect.

NAME OF FIRM: _____

ADDRESS: _____

TELEPHONE: _____

FACSIMILE: _____

EMAIL: _____

BY: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

I.2 SHOPPING LIST (AUG 07)

						TOTAL OFFERED PRICE
LINE ITEM		COUNTRY OF ORIGIN	QUANTITY POUNDS	QUANTITY OFFERED (LBS)	PRICE PER LBS	
	LOCATION					

20	Somerville, NJ	Japan	2,217.88			
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J. 3 MATERIAL SAFETY DATA SHEET (JUN 07)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DEFENSE LOGISTICS AGENCY
DEFENSE NATIONAL STOCKPILE CENTER
8725 JOHN J. KINGMAN ROAD
SUITE 3339
FORT BELVOIR, VA 22060-6223

EMERGENCY TELEPHONE NUMBER:
1-800-424-9300 (NORTH AMERICA)
1-703-527-3887 (INTERNATIONAL)

SUBSTANCE: IODINE

TRADE NAMES/SYNONYMS:

IODINE, SUBLIMED; IODINE MOLECULE (I₂); MOLECULAR IODINE; DIATOMIC IODINE; DIIODINE; I₂; DLA11400; RTECS NN1575000

CHEMICAL FAMILY: halogens

CREATION DATE: Jul 01 1992

REVISION DATE: Jun 14 2007

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: IODINE
CAS NUMBER: 7553-56-2
EC NUMBER (EINECS): 231-442-4
EC INDEX NUMBER: 053-001-00-3
PERCENTAGE: 100.0

3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=3 FIRE=0 REACTIVITY=0

EMERGENCY OVERVIEW:

PHYSICAL FORM: solid

MAJOR HEALTH HAZARDS: respiratory tract burns, skin burns, eye burns, mucous membrane burns, allergic reactions

PHYSICAL HAZARDS: May ignite combustibles.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: burns

LONG TERM EXPOSURE: burns

SKIN CONTACT:

SHORT TERM EXPOSURE: allergic reactions, burns

LONG TERM EXPOSURE: allergic reactions, burns

EYE CONTACT:

SHORT TERM EXPOSURE: burns



LONG TERM EXPOSURE: burns
INGESTION:
SHORT TERM EXPOSURE: allergic reactions, burns
LONG TERM EXPOSURE: allergic reactions, burns

CARCINOGEN STATUS:
OSHA: No
NTP: No
IARC: No

4. FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing and shoes before reuse. Destroy contaminated shoes.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If swallowed, drink plenty of water, do NOT induce vomiting. Get immediate medical attention.

ANTIDOTE: sodium thiosulfate, oral.

NOTE TO PHYSICIAN: For inhalation, consider oxygen. Avoid gastric lavage or emesis.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard. Oxidizer. May ignite or explode on contact with combustible materials.

EXTINGUISHING MEDIA: water

Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents. Large fires: Flood with water. Apply water from a protected location or from a safe distance.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Flood with water. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Evacuate if fire gets out of control or containers are directly exposed to fire. Evacuation radius: 800 meters (1/2 mile).

6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Avoid contact with combustible materials. Do not touch spilled material. Small dry spills: Move containers away from spill to a safe area. Small liquid spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry.

7. HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. NFPA 430 Code for the Storage of Liquid and Solid Oxidizing Materials. Keep separated from incompatible substances.

HANDLING: Use methods to minimize dust.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

IODINE:

- 0.1 ppm (1 mg/m³) OSHA ceiling
- 0.1 ppm ACGIH ceiling
- 0.1 ppm (1 mg/m³) NIOSH recommended ceiling
- 0.1 ppm (1.1 mg/m³) UK WEL STEL

MEASUREMENT METHOD: NIOSH IV # 6005; OSHA ID212

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.

1 ppm

Any supplied-air respirator.

2 ppm

Any supplied-air respirator operated in a continuous-flow mode.

Any self-contained breathing apparatus with a full facepiece.

Any supplied-air respirator with a full facepiece.

Emergency or planned entry into unknown concentrations or IDLH conditions -

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Escape -

Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted acid gas canister having an N100, R100, or P100 filter.

Any appropriate escape-type, self-contained breathing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

ODOR: Not available

MOLECULAR WEIGHT: 253.809

MOLECULAR FORMULA: I₂

BOILING POINT: 363 F (184 C)

MELTING POINT: 237 F (114 C)

VAPOR PRESSURE: 0.305 mmHg @ 25 C

VAPOR DENSITY (air=1): 8.8

SPECIFIC GRAVITY (water=1): 4.93

WATER SOLUBILITY: 0.03% @ 20 C

PH: Not applicable

VOLATILITY: Not applicable

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SOLVENT SOLUBILITY:

Soluble: alcohol, benzene, ether, chloroform, glycerol, carbon disulfide, iodide solutions, quinoline, amines, acetic acid, carbon tetrachloride

10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid contact with combustible materials. May ignite or explode on contact with combustible materials. Keep out of water supplies and sewers.

INCOMPATIBILITIES: combustible materials, metals, bases, halogens, metal carbide, oxidizing materials, reducing agents, metal salts

IODINE:

ACETALDEHYDE: Violent reaction.

ACETYLENE: Explosive reaction.

ALUMINUM (POWDERED): Violent reaction in the presence of moisture.

AMMONIA OR SOME DERIVATIVES: May form explosive salt.

BORON: Spontaneous reaction at elevated temperatures.

CESIUM OXIDE: Incandescent reaction at elevated temperatures.

DIPROPYLMERCURY: Violent reaction.

ETHANOL + PHOSPHOROUS: Dangerous reaction.

FORMAMIDE: Prolonged storage may result in dangerous buildup of pressure in a closed container.

HALOGENS AND INTERHALOGENS: Ignite on contact.

LITHIUM SILICIDE: Ignites on heating.

MAGNESIUM: Violent reaction in the presence of moisture.

MERCURY(II) AMIDE CHLORIDE + ETHANOL: Delayed explosion.

METAL ACETYLIDES: Ignition or incandescent reaction at elevated or ambient temperatures.

METALS AND ALLOYS: Exothermic reaction with possible ignition or explosion.

OXYGEN DIFLUORIDE: Explodes when warmed.

PHOSPHOROUS: Ignition.

POLYACETYLENE: Explosive decomposition at 113 C.

PYRIDINE: Possible pressure increase upon prolonged storage in a closed container.

SILVER AZIDE + ETHER: Forms highly explosive iodine azide.

SODIUM: Forms shock-sensitive mixture.

SODIUM HYDRIDE: Incandescent reaction.

SODIUM PHOSPHINATE: Violent exothermic reaction and ignition.

SULFUR TRIOXIDE: Possible pressure increase upon prolonged storage in a closed container.

TETRAAMINECOPPER(II) SULFATE + ETHANOL: Forms explosive compound.

TRIOXYGEN DIFLUORIDE: Possible ignition and explosion.

ZINC: Violent reaction in the presence of moisture.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: iodine, iodinated compounds

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

IODINE:

TOXICITY DATA: 28 mg/kg oral-human LDLo; 26 mg/kg/1 year(s) intermittent oral-woman TDLo; 29 mg/kg unreported-man LDLo; 14 gm/kg oral-rat LD50; 137 ppm/1 hour(s) inhalation-rat LCLo; 10500 mg/kg subcutaneous-rat LD50; 22 gm/kg oral-mouse LD50; >8650 mg/kg subcutaneous-mouse LD50; 800 mg/kg oral-dog LDLo; 40 mg/kg intravenous-dog LDLo; 10 gm/kg oral-rabbit LD50; 175 mg/kg subcutaneous-rabbit LDLo; 100 mg/m³ inhalation-rat TCLo; 100 mg/m³ inhalation-mammal TCLo; 10 mg/m³ inhalation-mammal TCLo; 5 mg/kg oral-rabbit LDLo; 1000 mg/kg oral-mouse LD50; 1 mg/m³ inhalation-human TCLo; 0.07 gm/kg oral-human TDLo; 25 mg/kg oral-human TDLo; 746 mg/kg/14 week(s) continuous oral-rat TDLo; 3.1 mg/m³/24 hour(s)-13 week(s) continuous inhalation-rat TCLo; 1.38 mg/m³/24 hour(s)-13 week(s) continuous inhalation-rat TCLo; 0.5 mg/m³/24 hour(s)-8 week(s) continuous inhalation-mammal TCLo

LOCAL EFFECTS:

Corrosive: inhalation, skin, eye, ingestion

ACUTE TOXICITY LEVEL:

Slightly Toxic: ingestion

TARGET ORGANS: immune system (sensitizer)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: hormonal disorders, immune system disorders or allergies, respiratory disorders

REPRODUCTIVE EFFECTS DATA: 1100 mg/kg oral-rat TDLo 1-22 day(s) pregnant female continuous; 2750 mg/kg oral-rat TDLo 1-22 day(s) pregnant female continuous; 15 mg/kg oral-rabbit TDLo 30-31 day(s) pregnant female continuous

ADDITIONAL DATA: May cross the placenta. May cross react with similar compounds.

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

IODINE: Inhalation may cause severe irritation of the mucous membranes, sparkling before the eyes, severe cough, headache, somnolence and swelling of the parotid gland, and possibly pulmonary edema. Workers exposed to iodine vapor experienced catarrhal rhinitis, stomatitis, and chronic pharyngitis. Laboratory technicians reported headaches, and a feeling of tightness in the chest following accidental exposure.

CHRONIC EXPOSURE:

IODINE: Effects depend on concentration and duration of exposure. Repeated or prolonged contact with corrosive substances may cause inflammatory and ulcerative changes in the mouth and possibly bronchial and gastrointestinal

disturbances.

SKIN CONTACT:

ACUTE EXPOSURE:

IODINE: May cause brown discoloration of the skin with marked erythema, desquamation and vesiculation with weeping and crusting. The lesions are common and are usually acneform and slow healing. Skin absorption may occur. Death has been reported after application of iodine tincture to one third of the body surface. Although iodine is a rare sensitizer, the hypersensitivity reaction may be characterized by dermatitis, fever, and a generalized skin eruption and may prove fatal.

CHRONIC EXPOSURE:

IODINE: Repeated or prolonged contact may cause sensitization with dermatitis, laryngeal edema and serum sickness with lymph node enlargement and joint pain and swelling.

EYE CONTACT:

ACUTE EXPOSURE:

IODINE: In a human study, all subjects complained of irritation after two minutes at 1.63 ppm. In another study, patients exposed for 3-4 minutes to saturated vapor experienced brown staining of the corneal epithelium, and loss of the layer of tissue with recovery occurring in 2-3 days. Occupational exposure to iodine vapors has been reported to cause a burning sensation, lacrimation and blepharitis.

CHRONIC EXPOSURE:

IODINE: Effects depend on concentration and duration of exposure. Conjunctivitis or effects as detailed in acute exposure may occur.

INGESTION:

ACUTE EXPOSURE:

IODINE: Ingestion may cause inflammation and corrosion of the gastrointestinal tract with brown discoloration of the lips and mucous membranes, a burning sensation, nausea, severe vomiting, diarrhea, abdominal pain, intense thirst, metallic taste, fever, delirium and stupor. Rarely, ulcerative esophagitis has been reported. Large doses may result in convulsions, hemorrhagic nephritis, anuria and shock. Asphyxia from edema of the epiglottis, aspiration, or pulmonary edema may occur. Hypersensitivity reactions may occur manifested by angioneurotic edema, fever, arthralgia, lymphadenopathy, eosinophilia and rarely by multiple petechiae of the skin and mucous membranes. Death due to circulatory collapse and bronchopneumonia, uremia or delayed esophageal and pyloric stenosis have been reported. The median lethal dose reported in man is 2-4 grams. Pathologic findings include glomerular and tubular necrosis.

CHRONIC EXPOSURE:

IODINE: Repeated or prolonged ingestion may cause iodism. This syndrome is characterized by a burning sensation in the mouth and throat, brassy taste, gastrointestinal irritation and diarrhea, salivation, gingivitis, sneezing, rhinitis, rhinorrhea, headache, fever, laryngitis, pharyngitis, bronchitis, cough, stomatitis, parotitis, edema of the glottis, possibly pulmonary edema, sleeplessness, tremor, tachycardia, nervous symptoms, anorexia, and weight loss. Various skin rashes including vesicular, vegetative, maculopapular, acne-form, bullous eruptions and possibly fatal iododerma have been reported. In hypersensitive individuals, iodism may be precipitated by small doses. Lacrimation, edema of the eyelids, and conjunctival hyperemia may occur. Reproductive effects have been reported in animals.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

FISH TOXICITY: 3000 ug/L 24 day(s) LC50 (Mortality) Guppy (*Poecilia reticulata*)

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262.
Hazardous Waste Number(s): D001.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

LAND TRANSPORT ADR: No classification assigned.

LAND TRANSPORT RID: No classification assigned.

AIR TRANSPORT IATA: No classification assigned.

AIR TRANSPORT ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

15. REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: Yes

CHRONIC: Yes

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Not determined.

EUROPEAN REGULATIONS:

EC CLASSIFICATION (ASSIGNED):

Xn	Harmful
N	Dangerous for the Environment

EC Classification may be inconsistent with independently-researched data.

DANGER/HAZARD SYMBOL:



EC RISK AND SAFETY PHRASES:

R 20/21	Harmful by inhalation and in contact with skin.
R 50	Very toxic to aquatic organisms.
S 2	Keep out of the reach of children.
S 23	Do not breathe gas, fumes, vapor, or spray.
S 25	Avoid contact with eyes.
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

GERMAN REGULATIONS:

WATER HAZARD CLASS (WGK):

STATE OF CLASSIFICATION: VwVwS

CLASSIFICATION UNDER HAZARD TO WATER: 1

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

16. OTHER INFORMATION

MSDS SUMMARY OF CHANGES

8. EXPOSURE CONTROLS, PERSONAL PROTECTION