Safety Data Sheet
According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 1740
Review Date: January 24, 2019

1 Identification of substance and company

Product details
Product name: Potassium Iodide
Product code: 13857, 16600
Relevant identified uses of the substance: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: (210) 691-2000
Web site: www.noahtech.com

Emergency information:
CHEMTREC
800-424-9300

2 Hazards identification

Hazard designation: GHS label elements
Pictograms:

Signal word: Danger

Hazard statements: H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed

Precautionary statements:
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P314 Get medical advice/ attention if you feel unwell
P501 Dispose of contents/ container to an approved waste disposal plant

GHS Classification: Specific target organ toxicity - repeated exposure, oral, thyroid - 1
Hazards not otherwise classified: None

HMIS ratings (scale 0-4):
Health 1
Flammability 0
Physical hazard 0

3 Composition/Information on ingredients

Chemical name: Potassium iodide
Designation: (CAS#): 7681-11-0
EC Number: 231-659-4
Formula: KI
Synonyms: None known

4 First aid measures

After inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact: Wash off with soap and plenty of water. Consult a physician.
After eye contact: Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
After swallowing: If conscious, rinse mouth out with water and seek medical advice
Information for doctor: Show this safety data sheet to the doctor in attendance
Symptoms/effects; acute and delayed: Weakness, anemia, loss of weight and general depression, skin rash running nose, headache and irritation of the mucous membranes. In severe cases skin may show pimples, boils, hives, blisters and black and blue spots.
Immediate medical attention and special treatment needed: Sudden drop in blood pressure, paralysis symptoms, agitation, vomiting

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5 Fire-fighting measures

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards caused by the material, its products of combustion or resulting gases: Hydrogen iodide, oxides of potassium
Protective equipment: Wear self-contained breathing apparatus, wear fully protective fire fighting equipment/clothing in fire situations

6 Accidental release measures

Person-related safety precautions: Wear personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas.

Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits
Measures for cleaning/collecting: Pick up and arrange disposal without creating dust. Sweep up and shovel.

Additional information: See Section 7 for information on safe handling
See Section 8 for information on personal protective equipment
See Section 13 for information on disposal

7 Handling and storage

Information for safe handling: Keep containers tightly sealed
Store in cool, dry place in tightly closed containers
Ensure good ventilation/exhaustion at the workplace

Information about protection against explosions and fires: Explosive reaction with charcoal + ozone, fluorine perchlorate, trifluoroacetyl hypofluorite

Storage requirements to be met by storerooms and containers: Keep container tightly closed. Store in cool, dry place and well ventilated place.

Information about storage in one common storage facility: Do not store together with strong acid, bases or oxidizers

Incompatibility (avoid contact with): Violent reaction or ignition on contact with diazonium salts, diisopropyl peroxycarbonate, bromine pentafluoride, chlorine trifluoride

Strong reducing agents, nickel and its alloys, steel, aluminum, alkali metals, brass, magnesium, zinc, cadmium, copper

Further information about storage conditions: Keep container tightly sealed
Air sensitive. Moisture sensitive. Light sensitive.
May decompose on exposure to light
Store under inert gas

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

Components with critical values that require monitoring at the workplace: ACGIH TLV: TWA 0.01 ppm; upper respiratory tract irritation, hypothyroidism

Additional information: None

Personal protective equipment: The usual precautionary measures should be adhered to in handling the chemicals
Keep away from foodstuffs, beverages and food
Instantly remove any soiled and impregnated garments
Wash hands during breaks and at the end of the work

Respiratory protection: Use suitable respirator when high concentrations are present
Use only NIOSH/NIOSH or CEN approved dust mask type N95 or TYPE P1 (EN 143)

Hand 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.

Eye protection: Safety glasses with side shields

Skin protection: Protective work clothing

Additional protective equipment: Sufficient to prevent contact
Emergency eyewash and safety shower

9 Physical and chemical properties

General Information:

Physical state: Crystalline
Color: White or pale yellow
Smell: Odorless
Molecular Weight (Calculated): 166.01
pH (5% solution): 6 - 8 @ 50 g/L @ 20 C
Melting point/range: 681 C
Boiling point/range: 1330 C
Flash point: Non-flammable
Autoignition temperature: No data available
Decomposition temperature: No data available
Danger of explosion: No data available
Flammable limits:
Lower: No data available
Upper: No data available
Vapor pressure (mm Hg): 1 mmHg @ 745 C
Specific gravity at 20 °C: 3.123
Solubility in/Miscibility with water: 1275 g/L @ 1 C
Solubility in other solvents: Soluble in alcohol, acetone and ether

10 Stability and reactivity
Reactivity: No data available
Stability: Stable under recommended storage conditions
Conditions to be avoided: Heat / Moisture / Light
See section 7 for information on proper handling and storage
Materials to be avoided: Strong reducing agents, nickel and its alloys, steel, aluminum, alkali metals, brass, magnesium, zinc, cadmium, copper
Dangerous reactions: Violent reaction or ignition on contact with diazonium salts, diisopropyl peroxydicarbonate, bromine pentafluoride, chlorine trifluoride. Explosive reaction with charcoal + ozone, fluorine perchlorate, trifluoroacetyl hypofluorite.
Hazardous decomposition products: Hydrogen iodide, oxides of potassium

11 Toxicological information
Acute toxicity:
LD/LC50 values that are relevant for classification: oral-mouse LD50: 1862 mg/kg
Primary irritant effect:
on the skin: May cause slight irritation
on the eye: May cause slight irritation
Sensitization: None known
Additional toxicological information: May be harmful by inhalation, ingestion, or skin absorption. Moderately toxic. Prolonged absorption of iodides may produce "iodism" which is manifested by skin rash, running nose and headache. In severe cases, the skin may show pimples, boils, redness, black and blue spots, hives and blisters. Weakness, anemia, loss of weight and general depression may occur. May cause irritation to the eyes. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually short in duration.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH
Additional information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 Ecological information
General notes: Zebra fish LC50: > 100 mg/L:96H
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system
Do not allow material to be released to the environment without proper governmental permits

13 Disposal considerations
Product recommendation: Consult state, local or national regulation for proper disposal
Allow professional disposal company to handle waste
Unclean packaging recommendation: Disposal must be made according to official regulations
Recommended cleaning agent: Water, if necessary with cleaning agent

14 Transport information
Land transport DOT
Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium iodide
Air transport ICAO-TI and IATA-DGR:
Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium iodide
UPS Ground / FedEx Ground:
Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium iodide
Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium iodide

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 311/312 hazards: Chronic Health Hazard
SARA Section 313 components: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313
California Proposition 65 components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm
TSCA: This product is listed in the TSCA inventory

16 Other information
The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.