SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 *Product identifiers*

Product name: **Sodium iodide**

CAS-No.: **7681-82-5**

Product Number: **A71493**

1.2 *Relevant identified uses of the substance or mixture and uses advised against*

Identified uses: Laboratory chemicals, Manufacture of substances

1.3 *Details of the supplier of the safety data sheet*

Company : Philip Harris Ltd., 2 Gregory Street, Hyde, Cheshire, SK14 4HR, UNITED KINGDOM

Telephone: +44 (0)845 1200 506 Fax: +44 (0)161 367 2140

Email: enquiries@philipharris.co.uk

1.4 *Emergency telephone number*

Emergency Phone #: **+44 (0)845 1200 506**

2. HAZARDS IDENTIFICATION

2.1 *Classification of the substance or mixture*

According to Regulation (EC) No1272/2008; Skin irritation (Category 2), Eye irritation (Category 2)

According to European Directive 67/548/EEC as amended: Irritating to eyes and skin.

2.2 *Label elements*

Pictogram 

Signal word Warning

Hazard statement(s): H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statement(s): P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard symbol(s): 

R-phrase(s): R36/38 Irritating to eyes and skin.

S-phrase(s): S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3 *Other hazards* – no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 *Substances*

Sodium iodide

Formula:	**NaI**
Molecular Weight:	**149.89**
CAS-No.:	**7681-82-5**
EC-No.:	**231-679-3**

4. FIRST AID MEASURES

4.1 *Description of first aid measures*

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 *Most important symptoms and effects, both acute and delayed:* no data available

4.3 *Indication of immediate medical attention and special treatment needed:* no data available

5. FIRE-FIGHTING MEASURES

5.1 *Extinguishing media*

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 *Special hazards arising from the substance or mixture:* no data available

5.3 *Precautions for fire-fighters:* Wear self contained breathing apparatus for fire fighting if necessary.

5.4 *Further information:* no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures:* Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

6.2 *Environmental precautions:* Do not let product enter drains.

6.3 *Methods and materials for containment and cleaning up:* Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4 *Reference to other sections:* For disposal see section 13.

7. HANDLING AND STORAGE

7.1 *Precautions for safe handling:* Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 ***Conditions for safe storage, including any incompatibilities:*** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Air, light, and moisture sensitive.

7.3 ***Specific end uses:*** no data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ***Control parameters:*** Contains no substances with occupational exposure limit values.

8.2 ***Exposure controls***

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166

Skin protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance:	**Form**: Crystalline	**Colour**: White	
b) Odour:	no data available		
c) Odour Threshold:	no data available		
d) pH:	pH 6.0 - 9.0 at 50 g/l at 20 °C		
e) Melting/freezing point:	661 °C	Melting point/range: no data available	
f) Initial boiling point and boiling range:	1,304 °C at 1,013 hPa		
g) Flash point:	no data available		
h) Evaporation rate:	no data available		
i) Flammability (solid, gas):	no data available		
j) Upper/lower flammability or explosive limits:	no data available		
k) Vapour pressure:	no data available		
l) Vapour density:	no data available		
m) Relative density:	3.670 g/cm3		
n) Water solubility:	no data available		
o) Partition coefficient: n-octanol/water: no data available			
p) Autoignition temperature:	no data available		
q) Decomposition temperature:	no data available		
r) Viscosity:	no data available		
s) Explosive properties:	no data available		

t) Oxidizing properties: no data available

9.2 *Other safety information:* no data available

10. STABILITY AND REACTIVITY

10.1 *Reactivity:* no data available

10.2 *Chemical stability:* Stable under recommended storage conditions.

10.3 *Possibility of hazardous reactions:* no data available

10.4 *Conditions to avoid:* Exposure to light may affect product quality. Air sensitive.

10.5 *Incompatible materials:* Oxidizing agents, Strong acids, Bromine trifluoride Oxidizing agents, Strong acids, Bromine trifluoride

10.6 *Hazardous decomposition products:* formed under fire conditions. - Hydrogen iodide, Sodium oxides

11. TOXICOLOGICAL INFORMATION

11.1 *Information on toxicological effects*

Acute toxicity: LD50 Oral - rat - 4,340 mg/kg

Skin corrosion/irritation: Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Moderate eye irritation - 24 h

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: Developmental Toxicity - Human - female – Oral. Specific Developmental Abnormalities: Endocrine system. Effects on Newborn: Other postnatal measures or effects.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure: Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. 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 of short duration.

Additional Information: RTECS: WB6475000

12. ECOLOGICAL INFORMATION

12.1 *Toxicity:* Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 860 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

LC50 - *Daphnia magna* (Water flea) - 0.17 mg/l - 48 h

12.2 *Persistence and degradability:* no data available

12.3 *Bioaccumulative potential:* Bioaccumulation *Chasmichthys gulosus* - 20 d

Bioconcentration factor (BCF): 344

12.4 *Mobility in soil:* no data available

12.5 *Results of PBT and vPvB assessment:* no data available

12.6 *Other adverse effects:* no data available

13. DISPOSAL CONSIDERATIONS

13.1 *Waste treatment methods*

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID:	Not dangerous goods
IMDG:	Not dangerous goods
IATA:	Not dangerous goods

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Eye Irrit. Eye irritation

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Skin Irrit. Skin irritation

Xi Irritant

R36/38 Irritating to eyes and skin.