

## Material Safety Data Sheet

Section1. Product Information and Company Identification			
<b>Product name</b>	Iodine Solution 0.05M		
<b>Mol.formula</b>	I <sub>2</sub>	<b>Cas no</b>	7553-56-2
<b>Mol.wt</b>	253,81 g/mol	<b>Cat no</b>	I002
<b>Manfactre name</b>	Pioneers for laboratory chemicals		
<b>Brand name</b>	Piochem		
<b>Adress</b>	Area 540, Industrial Zone 6 <sup>th</sup> October city Giza, Egypt.		
<b>Website</b>	www.piochem.com		
<b>E-mail</b>	info@piochem.com		
<b>Phone number</b>	+201225728304 , +201023932115		

Section 2.Hazards Identification
<p><b>Classification of the substance or mixture:</b>  <b>CLP Regulation (EC) No 1272/2008:</b>            Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.            STOT RE 1: Specific target organ toxicity, repeated exposure, Category 1, H372</p> <p><b>Label elements:</b>            Regulation (EC) No 1272/2008: Danger Hazard statements: STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure            Precautionary statements:            P260: Do not breathe dust/fume/gas/mist/vapours/spray            P264: Wash 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 in accordance with regulations on hazardous waste or packaging and packaging waste respectively            Substances that contribute to the classification potassium iodide</p> <p><b>Other hazards:</b>            Product fails to meet PBT/vPvB criteria.</p>



### Section 3. First Aid Measures

**Description of first aid measures:** The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:** Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

**By skin contact:** Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:** Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

**By ingestion/aspiration:** In case of consumption, seek immediate medical assistance showing the SDS for the product.

**Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated

**Indication of any immediate medical attention and special treatment needed:**

Non-applicable.

### Section 4. Fire Fighting Measures

**Extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. It is not recommended to use tap water as an extinguishing agent.

**Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk. 5.3 Advice for firefighters: Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit, ...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In



case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### Section 5. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product . Evacuate the area and keep out those who do not have protection.

**Environmental precautions:** Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

**Methods and material for containment and cleaning up:**

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents

### Section 6. Handling and Storage

**Precautions for safe handling:**

A.- Precautions for safe manipulation Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods .

Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products.

C.- Technical recommendations to prevent ergonomic and toxicological risks Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks It is recommended to have absorbent material available at close proximity to the product

Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage Store in a cool, dry, well-ventilated location

B.- General conditions for storage Avoid sources of heat, radiation, static electricity and contact with food.

**Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product



## Section 7. Additional Information

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

