

# Safety Data Sheet

# **SECTION 1: Identification of the Substance/Mixture and of the Company.**

1.1 Product Identification:			
Product Name : Iodine			
CAS Number	: 7553-56-2		
Molecular Formula	: I2		
EC Number	: 231-442-4		
CAT Number	: KEMICAS - relevant catalogue numbers		
Reach Number	: A registration number is not available for this substance as the substance		
or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 907/2006, the annual			
tonnage does not require a regis	tration, or the registration is envisaged for a later registration deadline.		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Application of the Substance	: Laboratory chemicals, not for food and drug		
1.3 Details of the supplier of the safety data sheet			
Manufacturer/Supplier	: KEMICAS		
Email	: info@kemicas.com		
1.4: Emergency Telephone num	ber		
Emergency Number	: +31(0)853012877		
Section 2: Hazards Identific	cation		
2.1 Classification of the substan	ce or mixture according to Regulation (EG 1272/2008)		
Acute toxicity (Dermal), Category	y 4 H312		
Skin corrosion/irritation, Catego	ry 2, H315		
Serious eye damage/eye irritation, Category 2 H319			
Acute toxicity (Inhalation), Categ	ory 4 H332		
Specific target organ toxicity - single exposure, Category 3, H335			
Specific target organ toxicity – repeated exposure, Category 1, H372			
Short-term (acute) aquatic hazar	d (Category 1), H400		
For the full text of H-sentences mentioned, see Section 16			



For the full text of R-sentences mentioned, see Section 16

# 2.2 GHS Label

GHS-Labelling Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word:

#### DANGER

#### Hazard Statements:

H312	Harmful contact with skin.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
Precautionary Statements:		

# P273Avoid release to the environment.P314Get medical advice/ attention if you feel unwell.P302 + P352IF ON SKIN: Wash with plenty of soap and water.P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if<br/>present and easy to do. Continue rinsing

#### Hazard Pictograms:



Signal word:

# DANGER

Revision Date: 01-05-2019

www.kemicas.com



# Section 3: Composition / Information on Ingredients.

# 3.1 Substance

Component	CAS-No.	Concentration	Classification REGULATION (EC) No (1272/2008)
lodine	7553-56-2	I2 According to the grade	Acute Tox. 4 Dermal, H312 Skin Corr. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4 Inhalation, H332 STOT SE 3, H335 STOT RE 1, H372
			Aquatic Acute 1, H400

# Section 4: First Aid Measures

# 4.1 Description of first aid measures

# General Advice

First-aid personnel: ensure self-protection!

After inhalation: Fresh air. If breathing stops immediately apply mechanical ventilation, if necessary oxygen mask. Immediately call in physician.

After contact with skin: Wash off with plenty of water. Remove contaminated clothing.

After contact with eyes: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open.

Immediately call in physician

After ingestion: Never give anything by mouth to an unconscious person. Make the victim drink plenty of water, do not induce vomiting. Call in physician.

# 4.2 Most Important symptoms and effects, both acute and delayed

Refer to labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

# Section 5: Firefighting Measures.

5.1 Extinguishing media

Suitable Extinguishing Media

In adaption to materials stored in the immediate neighbourhood.

Unsuitable Extinguishing Media



Prevent fire-fighting water from entering surface water or groundwater.

# 5.2 Special hazards arising from substance or mixture

Non- Combustible.

**5.3 Advice for firefighters** 

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

# **5.4 Further information**

No data available

# Section 6: Accidental Release Measures.

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

For personal protection, see section 8.

#### **6.2 Environmental precautions**

Do not allow to enter sewerage system.

6.3 Methods and materials for containment and cleaning up

Absorb on vermiculite, sand or a pillow from Chemical Spill Centre.

6.4 Reference to other sections

No information available

# Section 7: Handling and Storage.

#### 7.1 Precautions for safe handling

Keep away from sources of ignition. Take measures to prevent electrostatic charging. Work under hood. Do

not inhale substance. For precautions, refer to section 2.2

#### 7.2 Conditions for safe storage, including any incompatibilities

Closed in a well-ventilated place. Recommended storage temperature see product label.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

#### Section 8: Exposure Controls - Personal Protection.

# 8.1 Control parameters

No data available



# 8.2 Exposure controls

#### Engineering Measures

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

# Individual Protection Measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace. Work under hood. Do not inhale substance.

# **Respiratory Protections**

Required when vapours/aerosols are generated. The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

<u>Eye Protection</u> Required. Wear goggles. <u>Hand Protection</u> Required. Wear gloves <u>Body Protection</u> Required. <u>Environmental Exposure Controls</u> Do not allow to enter sewerage system, risk of explosion!

# Section 9: Physical and Chemical Properties.

# 9.1 Information on basis physical

#### Appearance and Changes in Physical State

Form: Solid Color: Black Odour: Specific. Melting point: 114 °C Boiling point: 183 °C Flash point: -



Ignition temperature: -

Mol. Weight: 253.81 g/mol

Density: 4,93 g/cm3

pH value: ± 5

Solubility in water: 0.3 g/l

Relative density of saturated gas/air mixture : -

Explosion limits: -

Further information: -

# 9.2 Other data

No further relevant information available.

# Section 10: Stability and Reactivity.

#### **10.1 Reactivity**

See section 10.3

**10.2 Chemical stability** 

No further relevant information available.

**10.3 Possibility of hazardous reactions** 

Exposable with air in a vaporous/gaseous state when heated

**10.4 Conditions to avoid** 

No further relevant information available.

**10.5 Incompatible materials** 

No further relevant information available.

#### **10.6 Hazardous decomposition products**

No further relevant information available.

**11.1 Information on toxicological effects** 

# Section 11: Toxicological Information.

0	
Acute oral toxicity	: LD50 orl. rat 14000 mg/kg
Acute inhalation toxicity	: No further relevant information available
Acute dermal toxicity	: No further relevant information available.
Skin irritation	: No further relevant information available.



Eye irritation	: No further relevant information available
Sensitisation	: No further relevant information available.
Germ cell mutagenicity	: No further relevant information available.
Carcinogenicity	: No further relevant information available.
Reproductive toxicity	: No further relevant information available.
Teratogenicity	: No further relevant information available
Specific target organ toxicity - single exposure	: No further relevant information available.
Specific target organ toxicity - repeated exposure	: No further relevant information available.
Aspiration hazard	: No further relevant information available.

# **11.2 Further information**

Handle in accordance with good industrial hygiene and safety practice.

# Section 12: Ecological Information.

#### **12.1 Toxicity**

No further relevant information available.

**12.2** Persistence and degradability

No further relevant information available.

#### **12.3** Bio accumulative potential

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### **12.5 Results of PBT and vPvB assessment**

No further relevant information available.

#### **12.6 Other adverse effects**

Do not allow to enter waters, wastewater, or soil!

# Section 13: Disposal Considerations.

Product : Chemicals must be disposed of in compliance with the respective national regulations.

Packaging : KEMICAS product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

# Section 14: Transport Information.



# Land Transport (ADR/RID)

: UN 3495
: lodine
: 8 (6.1)
: Group III
: yes
: No
: (D/E)
: UN 3495
: lodine
: 8 (6.1)
: Group III
: yes
: No
: UN 3495
: lodine
: 8 (6.1)
: Group III
: yes

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant

# Section 15: Regulatory Information.

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For this product, an assessment was not carry out.

# **15.2 Chemical Safety Assessment**

For this product, an assessment was not carry out. Revision Date: 01-05-2019 www.kemicas.com



# Section 16: Other Information.

The information and recommendations in this SDS are to the best of KEMICAS knowledge, information and belief. KEMICAS cannot be held responsible for any damage resulting from any possible error in this publication. *Full text of H-Statements and R-phrases referred to under sections 2 and 3.* 

,	
H312	Harmful in contact with skin.
H315	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

# **Exposure Scenario 1 (Industrial Use)**

1. Industrial use Reagent for analysis, (Chemical production)

# Sectors of end-use

- SU 3 : Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU 9 : Manufacture of fine chemicals
- SU10 : Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

# Chemical product category

- PC19 : Removed from PC list and relocated in the technical function list (Table R.12-15)24.
- PC21 : Laboratory chemicals

# Process categories

PROC 1 : Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2 : Chemical production or refinery in closed

PROC 2 : Chemical production or refinery in closed continuous process with occasional controlled

exposure or processes with equivalent containment conditions

PROC 3 : Manufacture or formulation in the chemical industry in closed batch processes with occasional

controlled exposure or processes with equivalent containment condition

PROC 4 : Chemical production where opportunity for exposure arises



PROC 5 Mixing or blending in batch processes

- PROC 8a : Transfer of substance or mixture (charging and discharging) at non- dedicated facilities 26
- PROC 8b : Transfer of substance or mixture (charging and discharging) at dedicated facilities26
- PROC 9 : Transfer of substance or mixture into small containers (dedicated filling line, weighing)
- PROC10 : Roller application or brushing
- PROC15 : Use as laboratory reagent

#### Environmental Release Categories

- ERC 1 : Manufacture of the substance
- ERC 2 : Formulation into mixture
- ERC 4 : Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- ERC 6a : Use of intermediate

ERC 6b : Use of reactive processing aid at industrial site (no inclusion into or onto article)

# **Exposure Scenario 2 (Professional Use)**

1. Industrial use Reagent for analysis, (Chemical production)

#### Sectors of end-use

SU22 : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Chemical product category

PC21 : Laboratory chemicals

#### Process categories

PROC15 : Use as laboratory reagent

Environmental Release Categories

- ERC 2 : Formulation into mixture
- ERC 6a : Use of intermediate
- ERC 6b : Use of reactive processing aid at industrial site (no inclusion into or onto article)

# **Disclaimer:**

The information above is believe to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations



to determine the suitability of the information for their particular purposes. In no event shall KEMICAS be liable for any claims, losses, or damages of any third party or for lost profits or any indirect, incidental, consequential or exemplary damages, howsoever arising, even if KEMICAS has been advise of the possibility of such damages.