

# SAFETY DATA SHEET

Version: 1.1

**Revision Date:** 2021-04-14 **Print Date:** 2021-04-14

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product Number: G0065

Product name: Gram's iodine solution
CAS Registry Nr: 7553-56-2 (component)

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

Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company:	Chemodex AG	
	CH - 9000 St. Gallen	
	Switzerland, Europe	
	Tel: +41 71 244 48 25	
	Fax: +41 71 244 48 26	
	Email: info@chemodex.com	
	Website: www.chemodex.com	

### 1.4 Emergency telephone number

**Tox Info Suisse:** 145 or +41 44 251 51 51

#### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Short-term (acute) aquatic hazard (Category 3) H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

### **Hazard statement(s)**

H402 Harmful to aquatic life.

### Precautionary statement(s)

P273	Avoid release to the environment.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Mol. Formula: n/a
Mol. Weight: n/a

CAS Registry No.: 7553-56-2 (component)

Component		Classification	Concentration
Iodine		•	
CAS-No. EC-No. Index-No.	7553-56-2 231-442-4 053-001-00-3	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; STOT RE 1; Aquatic Acute 1; H302, H332, H312, H315, H319, H335, H372, H400 M-Factor - Aquatic Acute:	>= 0.1 - < 1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 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. Consult a physician.

### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the 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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Not combustible.

Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

### **SECTION 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. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place.

Protect from light and moisture. Store at RT.

Storage class (TRGS 510): 12: Non Combustible Liquids

### 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

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control	Basis
			parameters	
lodine	7553-56-2	С	0.1 ppm	USA.
			1 mg/m3	Occupational
				Exposure Limits
				(OSHA) - Table
				Z-1 Limits for Air
				Contaminants
		TWA	0.01 ppm	USA. ACGIH
				Threshold Limit
				Values (TLV)
	Remarks	Not classifial	ole as a human carcino	gen
		STEL	0.1 ppm	USA. ACGIH
				Threshold Limit
				Values (TLV)
		Not classifial	ole as a human carcino	
		C	0.1 ppm	USA. NIOSH
			1 mg/m3	Recommended
				Exposure Limits
		С	0.1 ppm	USA. OSHA -
			1 mg/m3	TABLE Z-1 Limits
				for Air
				Contaminants -
				1910.1000

	С	0.1 ppm	California
		1 mg/m3	permissible
			exposure limits
			for chemical
			contaminants
			(Title 8, Article
			107)

#### 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### Skin 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 with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

#### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

a)	Appearance:	Colour: Dark red to brown
		Form: Liquid
b)	Odour:	No data available
c)	Odour Threshold:	No data available
d)	pH:	No data available
e)	Melting point/freezing point:	No data available

f)	Initial boiling point and boiling range:	No data available
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:	No data available
n)	Water solubility:	No data available
0)	Partition coefficient (n-octanol/water):	No data available
p)	Auto-ignition 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

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No data available

# 10.2 Chemical stability

Stable for at least 2 years under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

#### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong reducing agents, Strong acids, Ammonia, Steel (all types and surface treatments), Brass, Alkali metals, Nickel, Magnesium, Aluminum, Zinc, Copper, Tin/tin oxides, and its alloys

### 10.6 Hazardous decomposition products

No data available

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Oral: No data available
Inhalation: No data available
Dermal: No data available

#### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified

as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on

OSHA's list of regulated carcinogens.

### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

#### **Aspiration hazard**

No data available

### **Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

#### Components

lodine

### **Acute toxicity**

LD50 Oral - Rat - 315 mg/kg

(US-EPA)

Remarks: The GHS classification specified by the authority LC50 Inhalation - Rat - male and female - 4 h - > 4.588 mg/l

(OECD Test Guideline 403)

Remarks: (Regulation (EC) No 1272/2008, Annex VI) LD50 Dermal - Rabbit - male and female - 1,425 mg/kg

(US-EPA)

No data available

#### Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Result: Moderate skin irritation

#### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

In animal experiments: - Mouse

Result: negative

(OECD Test Guideline 429)

### Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test):

Test system: Mouse lymphoma test

Result: negative

Method: Mutagenicity (micronucleus test)
Species: Mouse - male and female

Result: negative

### Carcinogenicity

No data available

### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. - Respiratory system

### Specific target organ toxicity - repeated exposure

Oral - Causes damage to organs through prolonged or repeated exposure. - Thyroid Oral - Thyroid

### **Aspiration hazard**

No data available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Mixture

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

CDX-G0065-SDS-V1.1 8/10

#### 12.4 Mobility in soil

#### No data available

# 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

Components

lodine

Toxicity to fish:

static test LC50 - Oncorhynchus mykiss (rainbow trout) - 1.67 mg/l - 96 h

Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates:

static test EC50 - Daphnia magna (Water flea) - 0.55 mg/l - 48 h

Remarks: (ECHA)

EC50 - Daphnia magna (Water flea) - 0.2 mg/l - 48 h

Toxicity to algae:

Growth inhibition ErC50 - Desmodesmus subspicatus (green algae) - 0.13 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria:

EC50 - activated sludge - 280 mg/l - 3 h

(OECD Test Guideline 209)

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

DOT (US)

Not dangerous goods

# **IMDG**

## Not dangerous goods

#### IATA

### Not dangerous goods

#### 14.6 Special precautions for user

No data available

#### 14.7 Further information

No data available

Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15: Regulatory information**

#### **SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

No SARA Hazards

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

#### **SECTION 16: Other information**

#### **Further information**

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