

# **SAFETY DATA SHEET**

Version 6.10 Revision Date 09/06/2024 Print Date 09/07/2024

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

#### 1.1 Product identifiers

Product name : Gram Staining Kit

Product Number : 77730

Brand : Sigma-Aldrich

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

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

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

#### 1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319

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Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Short-term (acute) aquatic hazard (Category 3), H402 Long-term (chronic) aquatic hazard (Category 3), H412

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

## 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word	Danger
Hazard Statements	
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.
11412	riaiming to aquatic life with long lasting effects.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable
	for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant
. 3, 0 1 1 3, 0	foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep container tightly closed.
P405 + F255	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal
1 301	plant

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plant.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

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

Refer to component SDS

#### **SECTION 4: First aid measures**

Refer to component SDS

#### **SECTION 5: Firefighting measures**

Refer to component SDS

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

Refer to component SDS

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

#### 7.3 Specific end use(s)

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

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## **SECTION 8: Exposure controls/personal protection**

Refer to component SDS

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

Refer to component SDS

## **SECTION 10: Stability and reactivity**

Refer to component SDS

## **SECTION 11: Toxicological information**

Refer to component SDS

## **SECTION 12: Ecological information**

Refer to component SDS

## **SECTION 13: Disposal considerations**

Refer to component SDS

## **SECTION 14: Transport information**

DOT (US)

UN number: 3316 Class: 9

Proper shipping name: Chemical kits

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

**IMDG** 

UN number: 3316 Class: 9

Proper shipping name: CHEMICAL KIT

Packing group: II EMS-No: F-A, S-P

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Packing group: II

Millipore SigMa IATA

UN number: 3316 Class: 9 Packing group: II

Proper shipping name: Chemical kit

## **SECTION 15: Regulatory information**

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## **SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

Components	CAS-No.	Component TPQ (lbs)
Gram's crystal violet solution	Not Assigned	
Gram's iodine solution	Not Assigned	
Gram's decolorizer solution	Not Assigned	
Gram's safranin solution	Not Assigned	

SARA 311/312 : Fire Hazard

**Hazards** Acute Health Hazard

Chronic Health Hazard

SARA 313 : 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.

## **US State Regulations**

## **Massachusetts Right To Know**

Gram's safranin solution	Not Assigned
Gram's decolorizer solution	Not Assigned
Gram's crystal violet solution	Not Assigned
Gram's iodine solution	Not Assigned

#### Pennsylvania Right To Know

Gram's decolorizer solution Not Assigned

#### **Maine Chemicals of High Concern**

Gram's safranin solution	Not Assigned
Gram's decolorizer solution	Not Assigned
Gram's crystal violet solution	Not Assigned
Gram's iodine solution	Not Assigned

#### **Vermont Chemicals of High Concern**

Gram's crystal violet solution	Not Assigned
Gram's iodine solution	Not Assigned
Gram's decolorizer solution	Not Assigned
Gram's safranin solution	Not Assigned

## **Washington Chemicals of High Concern**

Gram's crystal violet solution Not Assigned

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Millipore SigMa Gram's iodine solution Not Assigned
Gram's decolorizer solution Not Assigned
Gram's safranin solution Not Assigned

## The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

#### **TSCA list**

The following substance(s) is/are subject to a Significant New Use Rule:

Gram's crystal violet solution
Gram's iodine solution
Gram's decolorizer solution
Gram's safranin solution
Not Assigned
Not Assigned
Not Assigned

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Gram's crystal violet solution
Gram's iodine solution
Gram's decolorizer solution
Gram's safranin solution
Not Assigned
Not Assigned
Not Assigned

# **SECTION 16: Other information**

## **Kit Components:**

Gram's crystal violet solution	Sigma-Aldrich	94448	Flam. Liq. 3; Eye Irrit. 2A; Carc. 2; Aquatic Acute 3; Aquatic Chronic 3; H226, H319, H351, H412
Gram's iodine solution	Sigma-Aldrich	90107	Aquatic Acute 3; H402
Gram's decolorizer	Sigma-Aldrich	75482	Flam. Liq. 2; Eye Irrit. 2A; STOT
solution			SE 3; H225, H319, H336
Gram's safranin solution	Sigma-Aldrich	94635	Flam. Liq. 3; H226

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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# **Kit Components:**

Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
dentifier		Word	Statements	Statements	information
Sigma-Aldrich		Warning	Flammable	Obtain special	
- 94448			liquid and vapor.	instructions	
	i 👗		Causes serious	before use. IF	
			eye irritation.	ON SKIN (or	
	X		Suspected of	hair): Take off	
	<b>(!)</b>		causing cancer.	immediately all	
			Harmful to	contaminated	
			aquatic life with	clothing. Rinse	
			long lasting	skin with water/	
			effects.	shower. Store in	
				a well-ventilated	
				place. Keep	
				cool. Dispose of	
				contents/	
				container to an	
				approved waste	
				disposal plant.	
				Do not handle until all safety	
				precautions	
				have been read	
				and understood.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	
			Remove contact		
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Store	
				locked up.	
				Keep away from	
				heat/ sparks/	
				open flames/	
				hot surfaces. No	
				smoking. IF	
				exposed or	
				concerned: Get	
				medical advice/	

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attention.
Keep container
tightly closed. If
eye irritation
persists: Get
medical advice/
attention.
Ground/bond
container and
receiving
equipment. In
case of fire: Use
dry sand, dry
chemical or
alcohol-resistant
foam to
extinguish.
Use explosion-
proof electrical/
ventilating/
lighting/
equipment.
Use only non-
sparking tools.
Take
precautionary
measures
against static
discharge.
Wash skin
thoroughly after
handling.
Avoid release to
the
environment.
Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.

Gram's iodine	Gram's iodine solution						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma-Aldrich			Harmful to	Avoid release to			
- 90107			aquatic life.	the			
				environment.			
				Dispose of			
				contents/			
				container to an			
				approved waste			

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		disposal plant.	

Gram's decolo	rizer solutio	n			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich		Danger	Highly	Keep away	
- 75482	<u> </u>	Dange.	flammable liquid	from heat/	
75402	X		and vapor.	sparks/ open	
			Causes serious	flames/ hot	
				surfaces. No	
			eye irritation.		
			May cause	smoking. IF ON	
			drowsiness or	SKIN (or hair):	
			dizziness.	Take off	
				immediately all	
				contaminated	
				clothing. Rinse	
				skin with water/	
				shower. Store in	
				a well-ventilated	
				place. Keep	
				container tightly	
				closed. Dispose	
				of contents/	
				container to an	
				approved waste	
				disposal plant.	
				Keep container	
				tightly closed. IF	
				INHALED:	
				Remove person	
				to fresh air and	
				keep	
				comfortable for	
				breathing. Call a	
				POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Store in	
				a well-ventilated	
				place. Keep	
				cool.	
				Ground/bond	
				container and	
				receiving	
				equipment. IF	
				IN EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	

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easy to do.	
Continue	
rinsing. Store	
locked up. Use	
explosion-proof	
electrical/	
ventilating/	
lighting/	
equipment. If	
eye irritation	
persists: Get	
medical advice/	
attention. Use	
only non-	
sparking tools.	
In case of fire:	
Use dry sand,	
dry chemical or	
alcohol-resistant	
foam to	
extinguish.	
Take	
precautionary	
measures	
against static	
discharge.	
Avoid breathing	
mist or vapors.	
Wash skin	
thoroughly after	
handling. Use	
only outdoors or in a well-	
ventilated area.	
Wear protective	
gloves/ eye	
protection/ face	
protection.	

Gram's safranin solution						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - 94635		Warning	Flammable liquid and vapor.	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. IF ON SKIN (or hair): Take off immediately all contaminated		

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clothing. Rinse	
skin with water/	
shower. Store in	
a well-ventilated	
place. Keep	
cool. Dispose of	
contents/	
container to an	
approved waste	
disposal plant.	
Keep container	
tightly closed. In	
case of fire: Use	
dry sand, dry	
chemical or	
alcohol-resistant	
foam to	
extinguish.	
Ground/bond	
container and	
receiving	
equipment.	
Use explosion-	
proof electrical/	
ventilating/	
lighting/	
equipment.	
Use only non-	
sparking tools.	
Take	
precautionary	
measures	
against static	
discharge.	
Wear protective	
gloves/ eye	
protection/ face	
protection.	

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