

## SAFETY DATA SHEET

Version 8.3 Revision Date 08/16/2021 Print Date 10/30/2021

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

#### 1.1 Product identifiers

Product name : Malachite Green Phosphate Assay Kit

Product Number : MAK307 Brand : Sigma

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

Identified uses : Laboratory chemicals, Synthesis of substances

## 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 MSDS for a kit. For the full MSDS 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 3), H226 Corrosive to Metals (Category 1), H290 Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 1), Eyes, H370

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

Sigma - MAK307

Millipore SiGMa

Page 1 of 8

Hazard statement(s) H226 H290 H315 H319 H370	Flammable liquid and vapor. May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. Causes damage to organs (Eyes).
Precautionary statement(s) P210	) Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 P234 P240	Keep container tightly closed. Keep only in original container. Ground/bond container and receiving equipment.
P241 P242	Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools.
P243 P260 P264	Take precautionary measures against static discharge.  Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  Wash skin thoroughly after handling.
P270 P280	Do not eat, drink or smoke when using this product.  Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362 P370 + P378	Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P390	Absorb spillage to prevent material damage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
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**

Refer to component MSDS

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

Refer to component MSDS



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

Refer to component MSDS

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

Refer to component MSDS

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

#### 7.1 Precautions for safe handling

## 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**

No metal containers.

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

#### Storage stability

Recommended storage temperature 2 - 8 °C

#### 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

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

Refer to component MSDS

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

Refer to component MSDS

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

Refer to component MSDS

Sigma - MAK307



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

Refer to component MSDS

## **SECTION 12: Ecological information**

Refer to component MSDS

## **SECTION 13: Disposal considerations**

Refer to component MSDS

## **SECTION 14: Transport information**

DOT (US)

UN number: 3316 Class: 9 Packing group: III

Proper shipping name: Chemical kits

Reportable Quantity (RQ): Poison Inhalation Hazard: No

**IMDG** 

UN number: 3316 Class: 9 Packing group: III EMS-No: F-A, S-P

Proper shipping name: CHEMICAL KIT

**IATA** 

UN number: 3316 Class: 9 Packing group: III

Proper shipping name: Chemical kit

## **SECTION 15: Regulatory information**

#### **SARA 302 Components**

CAS-No. Revision Date

\_

-

-

## **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

Acute Health Hazard, Chronic Health Hazard

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

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

Sigma - MAK307

Millipore SigMa

Page 4 of 8

## SECTION 16: Other information

#### **Kit Components:**

Reagent A Sigma MAK307A Met. Corr. 1; Skin Irrit. 2; Eye Irrit. 2A; H290, H315, H319

Reagent B Sigma MAK307B Flam. Liq. 3; Eye Irrit. 2A; STOT SE 1; H226, H319, H370

STANDARD Sigma MAK307C

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. 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.

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 8.3 Revision Date: 08/16/2021 Print Date: 10/30/2021





# **Kit Components:**

leagent A				_	
roduct	Pictogram	Signal	Hazard	Precautionary	Supplemental
dentifier		word	Statements	Statements	information
	Pictogram	_			

Sigma - MAK307 Page 6 of 8



Reagent B					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		word	Statements	Statements	information
Sigma - MAK307B		Danger	Flammable liquid and vapor. Causes serious eye irritation. Causes damage to organs (/\$/*_ORGAN_S INGLE/\$/).	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. IF ON SKIN (or hair): Take off immediately all contaminated 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Ground/bond container and receiving equipment. IF exposed: Call a POISON CENTER or doctor/ physician. Use explosion-proof electrical/ ventilating/ lighting/ equipment. If eye irritation persists: Get medical advice/ attention. Use only non-	

Sigma - MAK307 Page 7 of 8



sparking tools.
In case of fire:
Use dry sand,
dry chemical or
alcohol-resistant
foam to
extinguish.
Take
precautionary
measures
against static
discharge. Do
not breathe
dust/ fume/
gas/ mist/
vapors/ spray.
Wash skin
thoroughly after
handling. Do
not eat, drink or
smoke when
using this
product.
Wear protective
gloves/ eye
protection/ face
protection.
proceedion:

STANDARD					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		word	Statements	Statements	information
Sigma -					Not a hazardous
MAK307C					substance or
					mixture.

