

# **SAFETY DATA SHEET**

Version 6.8 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 : Starch Product Number : 33615 Brand : Sigma-Aldrich

CAS-No. : 9005-84-9

#### 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 Fax		+1 314 771-5765 +1 800 325-5052
Emergency telephone		
Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1

nergency Phone #	Phone # :	800-424-9300 CHEMTREC (USA) +1-703- 527-3887 CHEMTREC (International) 24
		Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Combustible dust,

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

#### 2.2 GHS Label elements, including precautionary statements

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Pictogram	none
Signal Word	Warning
Hazard Statements	May form combustible dust concentrations in air.
Precautionary Statements	none

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

#### Combustible dust

May form explosible dust-air mixture if dispersed.

# SECTION 3: Composition/information on ingredients

# 3.1 Substances

CAS-No. EC-No.	: 9005-84-9 : 232-679-6		
Component		Classification	Concentration
starch			
			<= 100 %
			· · ·

# SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

#### 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

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# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

# Unsuitable extinguishing media

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

- 5.2 Special hazards arising from the substance or mixture Carbon oxides Risk of dust explosion.
- **5.3** Advice for firefighters In the event of fire, wear self-contained breathing apparatus.
- **5.4 Further information** none

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

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
- **6.2 Environmental precautions** No special precautionary measures necessary.
- **6.3** Methods and materials for containment and cleaning up Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **6.4 Reference to other sections** For disposal see section 13.

# **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

Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.

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

#### Storage conditions

Tightly closed. Dry.

#### Storage class

Storage class (TRGS 510): 11: Combustible Solids

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# 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 parameters	Basis
starch	9005-25-8	TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifi	able as a humar	n carcinogen
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	10 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

#### 8.2 Exposure controls

# Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

#### 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.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm

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Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC 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.

#### **Respiratory protection**

Recommended Filter type: Filter type P2 The entrepeneur 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.

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

#### **Control of environmental exposure**

No special precautionary measures necessary.

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

#### 9.1 Information on basic physical and chemical properties

- Form: powder a) Appearance Color: white b) Odor No data available c) Odor Threshold No data available d) pH No data available e) Melting No data available point/freezing point Initial boiling point No data available f) and boiling range g) Flash point ()No data available h) Evaporation rate No data available
  - i) Flammability (solid, May form combustible dust concentrations in air. gas)

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j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition 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** The product is chemically stable under standard ambient conditions (room temperature).
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** no information available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

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# SECTION 11: Toxicological information

# **11.1 Information on toxicological effects**

#### Acute toxicity

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

# Skin corrosion/irritation

Skin - Human Result: Mild skin irritation - 3 h Remarks: (RTECS)

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient 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 ingredient 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

#### **11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Substances which occur in nature

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

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Handle in accordance with good industrial hygiene and safety practice.

SECT	ION 12: Ecological information
12.1	Toxicity No data available
12.2	Persistence and degradability No data available
12.3	Bioaccumulative potential No data available
12.4	Mobility in soil No data available
12.5	<b>Results of PBT and vPvB assessment</b> PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6	Endocrine disrupting properties No data available
12.7	Other adverse effects

No data available

# SECTION 13: Disposal considerations

# **13.1 Waste treatment methods**

#### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# **SECTION 14: Transport information**

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

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Not dangerous goods

### Further information

Not classified as dangerous in the meaning of transport regulations.

# 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.

Components	CAS-No.	Component TPQ (lbs)
SARA 313	componer threshold	erial does not contain any chemical nts with known CAS numbers that exceed the (De Minimis) reporting levels established by e III, Section 313.
US State Regulatio	ns	
Massachusetts Rig	nt To Know	
starch		9005-25-8
Massachusetts Rig	nt To Know	
starch		9005-25-8
Pennsylvania Right	To Know	
starch		9005-25-8
Pennsylvania Right	To Know	
starch		9005-25-8
Maine Chemicals of	High Concern	
Product doe	s not contain any li	isted chemicals
Vermont Chemicals	of High Concern	
Product doe	s not contain any li	isted chemicals
Washington Chemi	cals of High Conc	ern
Product doe	s not contain any li	sted chemicals
New Jersey Right T	o Know	
starch		9005-25-8
The ingredients of	this product are i	reported in the following inventories:
TSCA	: All substa	nces listed as active on the TSCA inventory
TSCA list	hight to a Circuit	
No substances are su	bject to a Significa	nt new use Rule.

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No substances are subject to TSCA 12(b) export notification requirements.

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

#### **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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