

# SAFETY DATA SHEET

1. Identification		
Product identifier: SAG* 10 fo	am	control agent
Other means of identification Synonyms:		lydimethylsiloxane Emulsion
Recommended use and restri Recommended use: Industr Restrictions on use: Not kn	ial a	and Agricultural Use.
Manufacturer/Importer/Distr ibutor Information	:	Momentive Performance Materials - Sistersville 10851 Energy Highway FRIENDLY WV 26146
Contact person	:	commercial.services@momentive.com
Telephone	:	General information +1-800-295-2392
Emergency telephone number Supplier	:	CHEMTREC 1-800-424-9300

2. Hazard(s) identification		
Hazard Classification	Not classified	
Label Elements		
Hazard Symbol:	No symbol	
Signal Word:	none	
Hazard Statement:	not applicable	
Precautionary Statements		
Prevention:	not applicable	
SDS US		1/12

SDS\_US



Response:	not applicable
Storage:	not applicable
Disposal:	not applicable
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
Fatty Acid Ethoxylate	Trade secret	1 - 5%	No data available.
* All concentrations are percentrations are percentrations are percentration:	** A specific	gredient is a gas. Gas concentrations are ir c chemical identity and/or percenta a trade secret.	
. First-aid measures			
Ingestion:		duce vomiting. If victim is conscious victim anything to drink if he is und	
Inhalation:	Move to fre	sh air. Get medical attention if sym	ptoms persist.
Skin Contact:	Wash area	with soap and water. Get medical	attention if symptoms occur.
Eye contact:		y flush with plenty of water or eyew et medical attention if symptoms pe	
Most important symptoms/	effects, acute and	delayed	
Symptoms:	No data ava	ailable.	
Hazards:	No data ava	ailable.	
Indication of immediate me	dical attention and	d special treatment needed	
Treatment:	There is no	specific antidote. Treatment is syn	nptomatic and supportive.
5. Fire-fighting measures			
General Fire Hazards:	No data ava	ailable.	
SDS_US			2/



#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	All standard extinguishing agents are suitable.	
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.	
Specific hazards arising from the chemical:	No data available.	
Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Firefighters must wear NIOSH/MSHA approved positive pressure self- contained breathing apparatus with full face mask and full protective clothing.	

s
Avoid contact with eyes. Keep out of reach of children. Do not freeze. Stir well before using. Attention: Not for injection into humans.
Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.
Do not allow runoff to sewer, waterway or ground.
Sensitivity to static discharge is not expected. NOTICE: STIR WELL BEFORE USING. KEEP FROM FREEZING.
RECOMMENDED STORAGE BETWEEN 35F (2C) AND 80F(26 C). Store in original container. Keep container closed.

# 8. Exposure controls/personal protection

**Control Parameters Occupational Exposure Limits** SDS\_US



None of the components have assigned exposure limits.
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Appropriate Engineering	Eyewash bottle with clean water. Provide eyewash station and safety
Controls	shower. Observe good industrial hygiene practices.

#### Individual protection measures, such as personal protective equipment

General information:	No data available.
Eye/face protection:	Safety glasses with side shields
Skin Protection Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing and eye/face protection.
Respiratory Protection:	If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).
Hygiene measures:	Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. Wash hands after handling.

When using do not eat, drink or smoke.

# 9. Physical and chemical properties

#### Appearance **Physical state:** liquid Form: liquid Color: White Faint Odor: Odor threshold: No data available. pH: No data available. Melting point/freezing point: 0 °C ca. Initial boiling point and boiling range: > 100 °C (1,013 hPa) Mixture Flash Point: Aqueous Solution does not flash **Evaporation rate:** < 1 (n-Butyl acetate=1) Flammability (solid, gas): No data available. Upper/lower limit on flammability or explosive limits Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. SDS\_US



Explosive limit - lower (%): Heat of combustion:	No data available. No data available.
Vapor pressure:	< 26.6 hPa (20 °C)
Vapor density:	Vapors are heavier than air and may spread near ground to sources of ignition.
Density:	0.9800 g/cm3 (25 °C)
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	Dispersible
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
VOC:	5.98 g/l

# 10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
Conditions to avoid:	Do not freeze.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	After evaporation of water, combustion will generate: Carbon oxides Oxides of silicon. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

# 11. Toxicological information



General information:	This product is not tested. The health hazard evaluation is based on the toxicological properties of a similar material.		
Information on likely routes of ex Ingestion:	<b>xposure</b> No data available.		
Inhalation:	No data available.		
Skin Contact:	No data available.		
Eye contact:	No data available.		
Symptoms related to the physical, chemical and toxicological characteristics Ingestion: No data available.			
Inhalation:	No data available.		
Skin Contact:	No data available.		
Eye contact:	No data available.		
Information on toxicological effe	ects		
Acute toxicity (list all possible	e routes of exposure)		
Oral Product:	ATEmix: 238,461.54 mg/kg		
Specified substance(s): Fatty Acid Ethoxylate	LD 50 (Rat): 3,100 mg/kg		
Dermal Product:	Not classified for acute toxicity based on available data.		
Inhalation Product:	Not classified for acute toxicity based on available data.		
Repeated dose toxicity Product:	No data available.		
Skin Corrosion/Irritation Product:	(Rabbit): Slightly irritating. Not Classified		
Serious Eye Damage/Eye Irritati	on		
SDS_US	6	5/1	



Product:	(Rabbit): No eye irritation Not Classified		
Respiratory or Skin Sensitizat Product:	ion No data available.		
Carcinogenicity Product:	No data available.		
IARC Monographs on th	e Evaluation of Carcinogenic Risks to Humans:		
No carcinogenic compone	ents identified		
US. National Toxicology No carcinogenic compone	Program (NTP) Report on Carcinogens: ents identified		
	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity			
In vitro Product:	No data available.		
In vivo Product:	No data available.		
Reproductive toxicity Product:	No data available.		
Specific Target Organ Toxicity Product:	y - Single Exposure No data available.		
Specific Target Organ Toxicity Product:	y - Repeated Exposure No data available.		
Aspiration Hazard Product:	No data available.		
Other effects:	No adverse effects anticipated from available information. No data available.		



# 12. Ecological information

Ecotoxicity:			
Acute hazards to the aquatic e	environment:		
Fish Product:	No data available.		
Specified substance(s): Fatty Acid Ethoxylate	LC0 (Brachydanio rerio, 96 h): 1,130 mg/l		
Aquatic Invertebrates Product:	No data available.		
Chronic hazards to the aquation	c environment:		
Fish Product:	No data available.		
Specified substance(s): Fatty Acid Ethoxylate	LC0 (Brachydanio rerio, 4 d): 1,130 mg/l		
Aquatic Invertebrates Product:	No data available.		
Toxicity to Aquatic Plants Product:	No data available.		
Persistence and Degradability			
Biodegradation Product:	No data available.		
Specified substance(s): Fatty Acid Ethoxylate	50 %		
BOD/COD Ratio Product:	No data available.		
Bioaccumulative potential Bioconcentration Factor (BC Product:	<b>CF)</b> No data available.		
Partition Coefficient n-octanol / water (log Kow)			

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Product:	No data available.
Mobility in soil:	No data available.
Known or predicted distribut Fatty Acid Ethoxylate	tion to environmental compartments No data available.
Known or predicted distribut	tion to environmental compartments
Water	No data available.
Silica Filled Polydimethylsiloxane	No data available.
Polyacrylate Thickener	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Disposal should be made in accordance with federal, state and local regulations.
Contaminated Packaging:	Dispose of as unused product.
14. Transport information	
DOT Not regulated.	
IMDG Not regulated.	
IATA Not regulated.	
Special precautions for user:	This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from food, drink and animal feeding stuffs. Sensitive to frost from 0°C.
15. Regulatory information	
US Federal Regulations	

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# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

No SARA Hazards

SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

# SARA 311/312 Hazardous Chemical <u>Chemical Identity</u> <u>Threshold Planning Quantity</u> 10000 lba

Fatty Acid Ethoxylate 10000 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

#### **US State Regulations**

# US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

# US. New Jersey Worker and Community Right-to-Know Act

#### **Chemical Identity**

Water Silica Filled Polydimethylsiloxane Polyacrylate Thickener Nonionic Surfactant, Fatty Acid Ester Fatty Acid Ethoxylate

#### US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

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#### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

# **Inventory Status:**

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.

# 16.Other information, including date of preparation or last revision

#### **HMIS Hazard ID**

Health	0
Flammability	0
Physical Hazards	0
PERSONAL PROTECTION	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

Issue Date:	05/04/2017
Revision Date:	No data available.
Version #:	1.7
Further Information:	No data available.



**Disclaimer:** 

#### Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

#### **Further Information**

The information provided in this Safety Data Sheet is correct to the best ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# **SAFETY DATA SHEET**

Version 6.5 Revision Date 01/15/2020 Print Date 04/04/2020

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

#### **1.1** Product identifiers

Product name	<sup>:</sup> Potassium chloride
Product Number Brand	: P9333 : Sigma-Aldrich
CAS-No.	: 7447-40-7

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

Identified uses : Laboratory chemicals, Synthesis of substances

: +1 800 325-5052

# 1.3 Details of the supplier of the safety data sheet

Company	: Sigma-Aldrich Inc. 3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES
Telephone	: +1 314 771-5765

# **1.4** Emergency telephone number

Emergency Phone # : +1-703-527-3887

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

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

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

3.1 Substances

Fax

Formula	:	KCI
Molecular weight	:	74.55 g/mol
CAS-No.	:	7447-40-7
EC-No.	:	231-211-8

No components need to be disclosed according to the applicable regulations.

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# **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

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# **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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **5.2 Special hazards arising from the substance or mixture** Hydrogen chloride gas, Potassium oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.

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# **6.3 Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections** For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. 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.

hygroscopic Keep in a dry place. Storage class (TRGS 510): 13: Non Combustible Solids

# 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

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. 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).

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

Splash contact Material: Nitrile rubber

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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 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**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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	Form: crystalline, powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	7
e)	Melting point/freezing point	Melting point/range: 770 °C (1418 °F)
f)	Initial boiling point and boiling range	1,500 °C 2,732 °F
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
I)	Vapour density	No data available
m)	Relative density	1.98 g/mL at 25 °C (77 °F)

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- n) Water solubility soluble
- o) Partition coefficient: No data available n-octanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- 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 under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** Exposure to moisture
- **10.5 Incompatible materials** Strong acids, Strong oxidizing agents
- 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Potassium oxides Other 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

LD50 Oral - Rat - female - 3,020 mg/kg Remarks: (ECHA) Inhalation: No data available Dermal: No data available No data available

# Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation No data available

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# Respiratory or skin sensitisation

No data available

# Germ cell mutagenicity

Ames test Salmonella typhimurium Result: negative In vitro mammalian cell gene mutation test mouse lymphoma cells Result: negative Mutagenicity (mammal cell test): chromosome aberration. Chinese hamster lung cells Result: positive

# 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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- 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**

Repeated dose toxicity - Rat - male - Oral - 2 yr - No observed adverse effect level - 1,820 mg/kg - Lowest observed adverse effect level - 110 mg/kg (ECHA) RTECS: TS8050000

hyperkalemia, Nausea, Vomiting, Abdominal pain, Diarrhoea, Constipation., Paresthesia., Thirst, Dizziness, Rash, pruritus, Weakness, muscle cramps, minor psychiatric changes, minor visual changes

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

# SECTION 12: Ecological information

# 12.1 Toxicity

static test LC50 - Pimephales promelas (fathead minnow) - 880 mg/l - 96 h

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Toxicity to fish

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(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 440 - 880 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

# 12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

#### **12.3 Bioaccumulative potential** No data available

# **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

# SECTION 13: Disposal considerations

# **13.1 Waste treatment methods**

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

**DOT (US)** Not dangerous goods

IMDG

Not dangerous goods

# ΙΑΤΑ

Not dangerous goods

# **SECTION 15: Regulatory information**

# SARA 302 Components

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No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### 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.

<b>Pennsylvania Right To Know Components</b> Potassium chloride	CAS-No. 7447-40-7	Revision Date
New Jersey Right To Know Components Potassium chloride	CAS-No. 7447-40-7	Revision Date

#### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 16: Other information**

#### **Further information**

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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.

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Revision Date: 01/15/2020

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# **SAFETY DATA SHEET**

Version 6.3 Revision Date 01/15/2020 Print Date 04/04/2020

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

#### **1.1** Product identifiers

Product name: Sodium chlorideProduct Number: S7653Brand: Sigma-AldrichCAS-No.: 7647-14-5

# 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 Street ST. LOUIS MO 63103 UNITED STATES
Telephone	: +1 314 771-5765

reiephone	•	$\pm 1 \ \text{J}14 \ \text{//}1 \ \text{J}00$
Fax	:	+1 800 325-5052

# **1.4 Emergency telephone number**

Emergency Phone # : +1-703-527-3887

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

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

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

3.1 Substances

Formula	:	NaCl
Molecular weight	:	58.44 g/mol
CAS-No.	:	7647-14-5
EC-No.	:	231-598-3

No components need to be disclosed according to the applicable regulations.

Sigma-Aldrich - S7653

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# **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

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# **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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

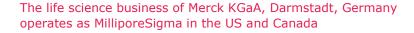
- **5.2 Special hazards arising from the substance or mixture** Hydrogen chloride gas, Sodium oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.

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#### **6.3 Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4** Reference to other sections For disposal see section 13.

# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. 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. Storage class (TRGS 510): 13: Non Combustible Solids

# 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

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

# **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. 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).

#### **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 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

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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 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**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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	Form: solid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	7
e)	Melting point/freezing point	Melting point/range: 801 °C (1474 °F)
f)	Initial boiling point and boiling range	1,413 °C 2,575 °F
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	1.33 hPa at 865 °C (1589 °F)
I)	Vapour density	No data available
m)	Relative density	2.1650 g/cm3
n)	Water solubility	358 g/l at 20 °C (68 °F) - soluble

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- o) Partition coefficient: No data available n-octanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- 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 under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents

# **10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides Other 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

No data available LC50 Inhalation - Rat - 1 h - > 42 mg/l Remarks: (RTECS) LD50 Dermal - Rabbit - > 10,000 mg/kg Remarks: (RTECS) No data available

# Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation Remarks: (ECHA)

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# Serious eye damage/eye irritation

No data available

# **Respiratory or skin sensitisation**

No data available

#### Germ cell mutagenicity

Animal testing did not show any mutagenic effects. **OECD Test Guideline 475** Rat - female - Bone marrow Result: positive

# Carcinogenicity

Did not show carcinogenic effects in animal experiments.

- 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.
- No component of this product present at levels greater than or equal to 0.1% is OSHA: on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

Did not show teratogenic effects in animal experiments. No impairment of reproductive performance suspected.

#### 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**

RTECS: VZ4725000

Vomiting, Diarrhoea, Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract., Nausea To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Lepomis macrochirus (Bluegill) - 5,840 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - 4,136 mg/l - 48 h (OECD Test Guideline 202)

# 12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

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#### **12.3 Bioaccumulative potential** No data available

#### **12.4 Mobility in soil** No data available

#### 12.5 Results of PBT and vPvB assessment

 $\mathsf{PBT}/\mathsf{vPvB}$  assessment not available as chemical safety assessment not required/not conducted

# **12.6 Other adverse effects**

Discharge into the environment must be avoided.

# SECTION 13: Disposal considerations

# **13.1 Waste treatment methods**

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated packaging**

Dispose of as unused product.

# **SECTION 14: Transport information**

# DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

# ΙΑΤΑ

Not dangerous goods

# **SECTION 15: Regulatory information**

# SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### 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.

#### Pennsylvania Right To Know Components Sodium chloride

CAS-No. 7647-14-5 Revision Date

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# New Jersey Right To Know Components

Sodium chloride

CAS-No. 7647-14-5 **Revision Date** 

#### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 16: Other information**

#### **Further information**

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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.

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: 6.3

Revision Date: 01/15/2020

Print Date: 04/04/2020

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# **SAFETY DATA SHEET**

Version 6.1 Revision Date 01/15/2020 Print Date 04/04/2020

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

#### **1.1 Product identifiers**

Product name : TES Product Number : T1375 Brand : Sigma CAS-No. : 7365-44-8

# 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 Street ST. LOUIS MO 63103 UNITED STATES
Telephone	: +1 314 771-5765

Telephone	•	+1 314 //1-5/65
Fax	:	+1 800 325-5052

#### **1.4 Emergency telephone number**

Emergency Phone # : +1-703-527-3887

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

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

# SECTION 3: Composition/information on ingredients

3.1	Substances				
	Synonyms	: TES free aci			
	Synonyms	: IES			

: TES free acid 2-[(2-Hydroxy-1,1bis(hydroxymethyl)ethyl)amino]ethanesulfonic acid

Formula

:  $C_6H_{15}NO_6S$ 

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Molecular weight	:	229.25 g/mol
CAS-No.	:	7365-44-8
EC-No.	:	230-906-3

No components need to be disclosed according to the applicable regulations.

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

#### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

- **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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **5.2** Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

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

- **6.1 Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.

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# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

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. Storage class (TRGS 510): 13: Non Combustible Solids

# **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

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

**Appropriate engineering controls** General industrial hygiene practice.

# 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).

# **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 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 CE approved gloves. This

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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**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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	Form: solid Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 225 °C (437 °F) - dec.
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
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	ca.229.3 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition	No data available

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temperature

- 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 under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents

# 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides Other 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 No data available

Inhalation: No data available Dermal: No data available 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.

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- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- 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

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

RTECS: Not available

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

# **SECTION 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 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

# SECTION 13: Disposal considerations

# 13.1 Waste treatment methods

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

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# Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

#### DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

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

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# 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.

# Pennsylvania Right To Know Components

2-(Tris(hydroxymethyl)methylamino)ethane-1- sulphonic acid	CAS-No. 7365-44-8	Revision Date
<b>New Jersey Right To Know Components</b> 2-(Tris(hydroxymethyl)methylamino)ethane-1- sulphonic acid	CAS-No. 7365-44-8	Revision Date

# **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 16: Other information**

#### **Further information**

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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

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# SIGMA-ALDRICH

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# SAFETY DATA SHEET

Version 5.2 Revision Date 08/14/2014 Print Date 04/29/2020

1. PF	1. PRODUCT AND COMPANY IDENTIFICATION		
1.1	Product identifiers Product name	:	TES sodium salt
	Product Number Brand	:	V900457 Vetec
	CAS-No.	:	70331-82-7
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the safety data sheet		
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
	Telephone Fax	:	+1 800-325-5832 +1 800-325-5052
1.4	Emergency telephone nu	mbo	er

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

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

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Formula	:	C6H14NNaO6S
Molecular weight	:	251.2 g/mol
CAS-No.	:	70331-82-7

No components need to be disclosed according to the applicable regulations.

# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

- **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

#### **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2** Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides

#### **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

# 5.4 Further information No data available

# 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. 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.

#### 7.3 Specific end use(s)

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

**Appropriate engineering controls** General industrial hygiene practice.

#### 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).

#### **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.

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a)	Appearance	Form: crystalline Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	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
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	350 g/l at 20 °C (68 °F)
o)	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
	<b>ner safety information</b> data available	

9.2

# **10. STABILITY AND REACTIVITY**

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3** Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- 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 identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

No data available

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**

**RTECS:** Not available

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

#### **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** 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

#### **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

# DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

#### **15. REGULATORY INFORMATION**

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### 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.

CAS-No.

70331-82-7

#### SARA 311/312 Hazards

No SARA Hazards

#### Massachusetts Right To Know Components

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

#### Pennsylvania Right To Know Components

Ethanesulfonic acid, 2-[[2-hydroxy-1,1bis(hydroxymethyl)ethyl]amino]-, sodium salt (1:1)

New Jersey Right To Know Components

**Revision Date** 

Ethanesulfonic acid, 2-[[2-hydroxy-1,1-
bis(hydroxymethyl)ethyl]amino]-, sodium salt (1:1)

CAS-No. 70331-82-7 **Revision Date** 

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **16. OTHER INFORMATION**

# **HMIS** Rating

Health hazard:	0
Chronic Health Hazard: Flammability: Physical Hazard	0 0
-	
NFPA Rating	
<b>NFPA Rating</b> Health hazard:	0
0	0 0

#### **Further information**

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#### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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