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Safety & Environmental
Health

SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0
Revision Date 10/24/2009
Print Date 08/04/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Anti-TRPC1, antibody produced in rabbit

Product Number : T8276
Brand : Sigma

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +18003255832
Fax : +18003255052
Emergency Phone # : (314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Anti-Transient receptor potential cation channel, subfamily C, member 1

CAS-No.	EC-No.	Index-No.	Concentration
Sodium azide 26628-22-8	247-852-1	011-004-00-7	>= 2.33 - <= 2.52 %
Potassium chloride 7447-40-7	231-211-8	-	>= 0.882 - <= 0.962 %
Disodium hydrogenorthophosphate 7558-79-4	231-448-7	-	>= 5.291 - <= 5.77 %
Sodium chloride 7647-14-5	231-598-3	-	>= 36.947 - <= 40.291 %
Potassium dihydrogenorthophosphate 7778-77-0	231-913-4	-	>= 0.882 - <= 0.962 %
Immunoglobulin -	-	-	>= 1.44 - <= 4.86 %
Serum albumin 9048-46-8	232-936-2	-	>= 46.51 - <= 50.33 %

3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Target Organ Effect, Highly toxic by ingestion, Highly toxic by skin absorption

Target Organs
Heart, Central nervous system, Brain.

HMS Classification
Health hazard: 4
Chronic Health Hazard: *
Flammability: 0
Physical hazards: 0

NFPA Rating
Health hazard: 4
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.
Skin : May cause skin irritation. May be fatal if absorbed through skin.
Eyes : May cause eye irritation.
Ingestion : May be fatal if swallowed.

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

5. FIRE-FIGHTING MEASURES

Flammable properties
Flash point : no data available

Ignition temperature : no data available

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

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

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Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

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

7. HANDLING AND STORAGE**Handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

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

Do not store near acids.

Recommended storage temperature: -20 °C

Heat sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Sodium azide	26628-22-8	C	0.1 ppm	1989-01-19	USA, OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
Remarks	Skin notation				
	Skin notation				
		STEL	0.11 ppm	2008-01-01	USA, ACGIH Threshold Limit Values (TLV)
	Lung damage Cardiac impairment Not classifiable as a human carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.				
			0.29 mg/m3	2008-01-01	USA, ACGIH Threshold Limit Values (TLV)
	Lung damage Cardiac impairment Not classifiable as a human carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.				

Personal protective equipment**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form powder, lyophilized

Safety data

pH no data available

Melting point no data available

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

10. STABILITY AND REACTIVITY**Storage stability**

Stable under recommended storage conditions.

Materials to avoid

Halogenated hydrocarbon, Acids, Strong oxidizing agents, Metals, Strong acids, Acid chlorides

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

Signs and Symptoms of Exposure

Nausea, Dizziness, Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects.

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May cause skin irritation. May be fatal if absorbed through skin.
Eyes	May cause eye irritation.
Ingestion	May be fatal if swallowed.
Target Organs	Heart, Central nervous system, Brain.,

12. ECOLOGICAL INFORMATION

Elimination Information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Highly toxic by ingestion, Highly toxic by skin absorption

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.
CAS-No.

Immunoglobulin

SARA 302 Components

Sodium azide

CAS-No.
26628-22-8

Revision Date
2007-07-01

SARA 313 Components

Sodium azide

CAS-No.
26628-22-8

Revision Date
2007-07-01

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Sodium azide
Disodium hydrogenorthophosphate

CAS-No.
26628-22-8
7558-79-4

Revision Date
2007-07-01
2007-03-01

Pennsylvania Right To Know Components

Sodium chloride
Serum albumin
Immunoglobulin
Sodium azide
Disodium hydrogenorthophosphate

CAS-No.
7647-14-5
9048-46-8
-
26628-22-8
7558-79-4

Revision Date
-
2007-07-01
2007-03-01

New Jersey Right To Know Components

Sodium chloride
Serum albumin
Immunoglobulin
Sodium azide
Disodium hydrogenorthophosphate

CAS-No.
7647-14-5
9048-46-8
-
26628-22-8
7558-79-4

Revision Date
-
2007-07-01
2007-03-01

California Prop. 65 Components

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

16. OTHER INFORMATION

Further information

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