# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 08/21/2009 Print Date 09/06/2011

RODUCT AND COMPAN	IY IDENTIFICATION			
Product name				
Flouuct name	: CAPS			
Product Number	: C2632			
Brand	: Sigma			
brand	. Olyma			
Company	: Sigma-Aldrich			
	3050 Spruce Str			
	SAINT LOUIS M	10 63103		
	USA			
Telephone	: +1 800-325-583	2		
Fax	: +1 800-325-505	2		
Emergency Phone #	: (314) 776-6555			
		-		
OMPOSITION/INFORMA	TION ON INGREDIENTS	5		
Synonyms	: 3-(Cyclohexylam	nino)-1-propanesulfonic a	cid	
Formula	: C <sub>9</sub> H <sub>19</sub> NO <sub>3</sub> S			
Molecular Weight	: 221.32 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
3-Cyclohexylaminopro	pane-1-sulphonic acid			
1135-40-6	214-492-1	-	-	
		-	-	
1135-40-6	214-492-1	-	-	
1135-40-6	214-492-1	-	-	
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AZARDS IDENTIFICATIO Emergency Overview OSHA Hazards Toxic by ingestion	214-492-1	-	-	
AZARDS IDENTIFICATIO Emergency Overview OSHA Hazards Toxic by ingestion HMIS Classification	214-492-1	-	-	
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AZARDS IDENTIFICATION Emergency Overview OSHA Hazards Toxic by ingestion HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects Inhalation Skin	214-492-1 <b>DN</b> 2 0 0 2 0 0 May be harmful if inhal May be harmful if abso	ed. May cause respirator	y tract irritation.	
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## 4. FIRST AID MEASURES

#### **General advice**

Move out of dangerous area.

## 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.

## 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

Avoid dust formation.

#### **Environmental precautions** Do not let product enter drains.

## Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Handling

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.

Keep in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

## **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).

#### Hand protection Handle with gloves.

**Eye protection** Face shield and safety glasses

## Hygiene measures

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Sa

Form	powder
Colour	white
ifety data	
рН	3.0 - 7.0
Melting point	> 300 °C (> 572 °F) - lit.
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	ca.110.7 g/l at 20 °C (68 °F)

## **10. STABILITY AND REACTIVITY**

## Storage stability

Stable under recommended storage conditions.

# Materials to avoid

Strong oxidizing agents

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

## **11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

LD50 Oral - Quail - > 316 mg/kg

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.

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.

## Signs and Symptoms of Exposure

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

#### **Potential Health Effects**

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

## Additional Information

RTECS: TZ6395000

## **12. ECOLOGICAL INFORMATION**

#### Elimination information (persistence and degradability)

no data available

#### **Ecotoxicity effects**

no data available

#### Further information on ecology

no data available

## **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

## ΙΑΤΑ

Not dangerous goods

## 15. REGULATORY INFORMATION

Sigma - C2632

## **OSHA Hazards**

Toxic by ingestion

## **DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

CAS-No.

3-Cyclohexylaminopropane-1-sulphonic acid	1135-40-6

#### SARA 302 Components

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

## SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Acute Health Hazard

## Massachusetts Right To Know Components

Pennsylvania Right To Know Components

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

	CAS-No.	Revision Date
3-Cyclohexylaminopropane-1-sulphonic acid	1135-40-6	
New Jersey Right To Know Components		
3-Cyclohexylaminopropane-1-sulphonic acid	CAS-No. 1135-40-6	Revision Date

## California Prop. 65 Components

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

## **16. OTHER INFORMATION**

## **Further information**

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