# SIGMA-ALDRICH

## **Material Safety Data Sheet**

Version 3.3 Revision Date 07/23/2012 Print Date 03/19/2013

1. PRODUCT AND COMPANY IDENTIFICATION			
Product name	:	5-Amino-1-pentanol	
Product Number Brand	:	123048 Aldrich	
Supplier	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	
Telephone	:	+1 800-325-5832	
Fax	:	+1 800-325-5052	
Emergency Phone # (For both supplier and manufacturer)	:	(314) 776-6555	
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956	

## 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

## OSHA Hazards

Harmful by ingestion., Corrosive

#### **GHS Classification**

Acute toxicity, Oral (Category 4) Skin corrosion (Category 1B) Serious eye damage (Category 1)

## GHS Label elements, including precautionary statements

Pictogram

Signal word



Danger

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Hazard statement(s) H302 H314	Harmful if swallowed. Causes severe skin burns and eye damage.
Precautionary statement(s) P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
HMIS Classification Health hazard: Flammability: Physical hazards:	3 0 0
NFPA Rating Health hazard: Fire: Reactivity Hazard:	3 2 0

## **Potential Health Effects**

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Ingestion	Toxic if swallowed.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	: C <sub>5</sub> H <sub>13</sub> NO	
Molecular Weight	: 103.16 g/mol	
Component		Concentration
5-Aminopentan-1-ol		
CAS-No.	2508-29-4	-
EC-No.	219-718-2	

## 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

Take off contaminated clothing and shoes immediately. 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. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **5. FIREFIGHTING MEASURES**

#### Suitable extinguishing media

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

#### Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

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

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **Environmental precautions**

Do not let product enter drains.

## 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.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

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

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

Store under inert gas. Sensitive to carbon dioxide

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (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. 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.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

	•	
	Form	Solidified mass or fragments
	Colour	colourless
Sa	afety data	
	рН	13.2 at 500 g/l at 20 °C (68 °F)
	Melting point/freezing point	Melting point/range: 33 - 35 °C (91 - 95 °F)
	Boiling point	120 - 122 °C (248 - 252 °F) at 21 hPa (16 mmHg)
	Flash point	66 °C (151 °F) - closed cup
	Ignition temperature	no data available
	Autoignition temperature	no data available
	Lower explosion limit	no data available
	Upper explosion limit	no data available
	Vapour pressure	no data available
	Density	0.949 g/mL at 25 °C (77 °F)
	Water solubility	no data available
	Partition coefficient: n-octanol/water	no data available
	Relative vapour	no data available

density

Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

## **10. STABILITY AND REACTIVITY**

### **Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions no data available

Conditions to avoid no data available

Materials to avoid Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx) Other decomposition products - no data available

#### **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Oral LD50 Inhalation LC50 no data available

**Dermal LD50** no data available

## Other information on acute toxicity no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization 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

## Teratogenicity

no data available

# Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

Aspiration hazard no data available

## Potential health effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous
	membranes and upper respiratory tract.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.

## Synergistic effects

no data available

#### Additional Information RTECS: Not available

#### **12. ECOLOGICAL INFORMATION**

Toxicity to fish

### Toxicity

LC50 - Danio rerio (zebra fish) - 215 - 464 mg/l - 96 h

# Persistence and degradability no data available

**Bioaccumulative potential** no data available

Mobility in soil no data available

**PBT and vPvB assessment** no data available

#### Other adverse effects

no data available

## **13. DISPOSAL CONSIDERATIONS**

#### Product

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

UN number: 3259 Class: 8 Packing group: III Proper shipping name: Amines, solid, corrosive, n.o.s. (5-Aminopentan-1-ol) Marine pollutant: No Poison Inhalation Hazard: No

## IMDG

UN number: 3259 Class: 8

Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (5-Aminopentan-1-ol) Marine pollutant: No

#### ΙΑΤΑ

UN number: 3259 Class: 8 Packing group: III Proper shipping name: Amines, solid, corrosive, n.o.s. (5-Aminopentan-1-ol)

## **15. REGULATORY INFORMATION**

### **OSHA Hazards**

Harmful by ingestion., Corrosive

#### 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

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

Pennsylvania Right To Know Components		
5-Aminopentan-1-ol	CAS-No. 2508-29-4	Revision Date
New Jersey Right To Know Components		
5-Aminopentan-1-ol	CAS-No. 2508-29-4	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**

#### **Further information**

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