



SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 07/27/2005  
Date Updated: 03/11/2004  
Version 1.30

### Section 1 - Product and Company Information

<b>Product Name</b>	ASTM D5134 QUALITATIVE REFERENCE ALKYLATE STD.,6X1ML		
<b>Product Number</b>	48267-U		
<b>Brand</b>	Supelco Chemical		
<b>Company</b>	Sigma-Aldrich		
<b>Street Address</b>	3050 Spruce Street		
<b>City, State, Zip, Country</b>	SAINT LOUIS, MO 63103 US		
<b>Technical Phone:</b>	314 771 5765	<b>Emergency Phone:</b>	414 273 3850 Ext. 5996
<b>Fax:</b>	800 325 5052		

### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
ASTM D5134 QUALITATIVE REFERENCE ALKYLATE STANDARD	64741-64-6	No	265-066-7	

**Formula**  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Flammable (USA) Highly Flammable (EU). Toxic.  
Flammable. May cause cancer. Harmful if swallowed. Irritating to eyes, respiratory system and skin.  
Probable Carcinogen (US). Target organ(s): Blood.

**HMIS Rating**  
Health: 2\*      Flammability: 3      Reactivity: 0

**NFPA Rating**  
Health: 2      Flammability: 3      Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

#### Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

**Flammable Hazards:** Yes

#### Explosion Hazards

Vapor may travel considerable distance to source of ignition and flash back.  
Container explosion may occur under fire conditions.

**Flash Point:** < 70 °F

< 21 °C

**Autoignition Temp:** N/A

**Flammability:** Yes

#### Extinguishing Media

##### Suitable

Carbon dioxide, dry chemical powder, or appropriate foam.

##### Unsuitable

Do not use water.

#### Firefighting

##### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### Specific Hazard(s)

Flammable liquid. Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

#### Procedure to be Followed in Case of Leak or Spill

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

#### Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

##### User Exposure

Avoid contact with eyes, skin, and clothing. Do not breathe vapor. Avoid prolonged or repeated exposure.

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**Storage**  
Suitable  
Keep container closed, Keep away from heat, sparks, and open flame.

## Section 8 - Exposure Controls / PPE

**Engineering Controls**  
Safety shower and eye bath, Use nonsparking tools, Mechanical exhaust required.

**Personal Protective Equipment**  
**Respiratory**  
Government approved respirator.  
**Hand**  
Compatible chemical-resistant gloves.  
**Eye**  
Chemical safety goggles.

**General Hygiene Measures**  
Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

**Appearance**  
Physical State  
Liquid

**Molecular Weight:** N/A

pH N/A  
BP/BP Range 90 °C  
MP/MP Range N/A  
Freezing Point N/A  
Vapor Pressure N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F < 70 °F  
Flash Point °C < 21 °C  
Explosion Limits N/A

Method: closed cup  
Method: closed cup

**Flammability** N/A  
**Autoignition Temp** N/A

**Solubility** N/A

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
**Stable**  
Stable.  
**Materials to Avoid**  
Strong oxidizing agents.

**Hazardous Decomposition Products**  
**Hazardous Decomposition Products**  
Carbon monoxide, Carbon dioxide.

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

## Section 11 - Toxicological Information

**Route of Exposure**  
**Skin Contact**  
Causes skin irritation.  
**Skin Absorption**  
May be harmful if absorbed through the skin.  
**Eye Contact**  
Causes eye irritation.  
**Inhalation**  
May be harmful if inhaled.  
**Ingestion**  
Harmful if swallowed.

**Target Organ(s) or System(s)**  
Central nervous system, Blood.

**RTECS Number:** N/A

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.  
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.  
Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

**DOT**  
**Proper Shipping Name:** Flammable liquids, n.o.s.  
**UN#:** 1993  
**Class:** 3  
**Packing Group:** Packing Group II  
**Hazard Label:** Flammable liquid  
**PIH:** Not PIH

**IATA**

Proper Shipping Name: Flammable liquid, n.o.s.  
IATA UN Number: 1993  
Hazard Class: 3  
Packing Group: II

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**Section 15 - Regulatory Information**

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**EU Directives Classification**

Symbol of Danger: T

Indication of Danger

Toxic.

**Risk Statements** R: 45 22

May cause cancer. Harmful if swallowed.

**Safety Statements** S: 53 45

Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**US Classification and Label Text**

Indication of Danger

Flammable (USA) Highly Flammable (EU), Toxic.

**Risk Statements**

Flammable. May cause cancer. Harmful if swallowed. Irritating to eyes, respiratory system and skin.

**Safety Statements**

Wear suitable gloves and eye/face protection. Do not breathe vapor.

**US Statements**

Probable Carcinogen (US). Target organ(s): Blood.

**United States Regulatory Information**

SARA Listed: No

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**Section 16 - Other Information**

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**Disclaimer**

For R&amp;D use only. Not for drug, household or other uses.

**Warranty**

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 Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

