

EUC 01160

EUC 011605

EUC 011655

## Material Safety Data Sheet



The Euclid Chemical Company

**EUCO WINTER ADMIXTURE - 55 GAL DRUM**  
**EUCO WINTER ADMIXTURE - 55 GAL DRUM**

Print Date 12/08/2010

Version 1

REVISION DATE: 03/09/2006

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : EUCO WINTER ADMIXTURE - 55 GAL DRUM  
 55 GAL DRUM

Product code : 016 55

COMPANY : Euclid Chemical Company  
 19218 Redwood Road  
 Cleveland, OH 44110

Telephone : 1-800-321-7628  
 Emergency Phone: : U.S. only: 1-800-255-3924  
 International Users Call Collect: 1-813-248-0585

Product use : Admixture

**SECTION 2 - HAZARDS IDENTIFICATION**
**Emergency Overview**

Brown. Liquid. No serious effects anticipated under normal conditions of use. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

**Acute Potential Health Effects/ Routes of Entry**

Inhalation : No serious effects anticipated under normal conditions of use.  
 Eyes : Direct contact may cause mild irritation.  
 Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.  
 Skin : May cause mild irritation.

**Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

Fillers are encapsulated and not expected to be released from product under normal conditions of use.

**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Water	7732-18-5	> 60.0
Calcium chloride	10043-52-4	30.0 - 60.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get



**EUCO WINTER ADMIXTURE - 55 GAL DRUM EUCO WINTER ADMIXTURE - 55 GAL DRUM**

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- exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
  - Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.
  - Protective measures : Other equipment not normally required. Use professional judgment in the selection, care, and use.
  - Engineering measures : Not required under normal conditions of use. Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

No known components with exposure limits.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- Form : Liquid
- Color : Brown
- Odor : None
- pH : 8.5 - 10.5
- Vapour pressure : Not available.
- Vapor density : Heavier than air
- Melting point/range : Not available.
- Freezing point : Not available
- Boiling point/range : Not available.
- Water solubility : Soluble
- Specific Gravity : 1.270 - 1.345
- % Volatile Weight : 67.9 %

**SECTION 10 - REACTIVITY / STABILITY**

- Substances to avoid : Strong acids. Strong bases.
- Stability : Stable
- Hazardous polymerization : Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Calcium chloride, CAS-No.: 10043-52-4  
 Acute oral toxicity (LD-50 oral) 1,000 mg/kg ( Rat )



The Euclid Chemical Company

**EUCO WINTER ADMIXTURE - 55 GAL DRUM**

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**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	1
Flammability	0
Reactivity	0
PPE	

- 0 = Minimum
- 1 = Slight
- 2 = Moderate
- 3 = Serious
- 4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Rich Mikol**

**Legend**

- ACGIH - American Conference of Governmental Hygienists
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- RTK - Right To Know
- SARA - Superfund Amendments and Reauthorization Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System

# EUCO WINTER ADMIXTURE

## MASONRY MORTAR ACCELERATOR

MISCELLANEOUS

### DESCRIPTION

**EUCO WINTER ADMIXTURE** is a multi-purpose liquid admixture designed to accelerate the normal setting rate of mortar, increase strength development at all ages, and to improve workability. It can be used safely with gray or white portland cement or colored masonry cements without causing discoloration.

### PRIMARY APPLICATIONS

EUCO WINTER ADMIXTURE is used in mortar to lay brick, block, structural clay tile and glass block to eliminate the dangers connected with freezing mortar joints.

### FEATURES/BENEFITS

- Accelerates set times of mortar
- Aids in protecting mortar in cold weather
- Cuts construction cost - no cold weather job delay
- Increases strengths at all ages
- Improves workability

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following results were developed under laboratory conditions.

Test Results-Prepared Mortars

#### Brickset Mortar

Setting Rate @70°F (21°C)	Plain	with EWA
Initial Set	3 hrs 15 min	2 hrs 15 min
Final Set	5 hrs 0 min	4 hrs 45 min
<b>Compressive Strength</b> ASTM C 109 2" (50 mm) cubes		

	Plain	with EWA
24 hours	4.3 psi (.03 MPa)	64 psi (0.4 MPa)
3 days	495 psi (3.4 MPa)	606 psi (4 MPa)
7 days	787 psi (5.4 MPa)	1015 psi (7 MPa)
28 days	857 psi (6 MPa)	1191 psi (8 MPa)

**Water Retention** ASTM C 9 76.1% 82.3%

**Absorption** ASTM C 642 7.0% 5.6%

#### Stoneset Mortar

Setting Rate @70°F (21°C)	Plain	with EWA
Initial Set	3 hrs 0 min	2 hrs 10 min
Final Set	5 hrs 0 min	4 hrs 30 min

<b>Compressive Strength</b> ASTM C 109 2" (50 mm) cubes		
24 hours	8.5 psi (0.6 MPa)	44 psi (0.3 MPa)
3 days	317 psi (2.2 MPa)	329 psi (2.3 MPa)
7 days	630 psi (4.3 MPa)	643 psi (4.4 MPa)
28 days	773 psi (5.3 MPa)	800 psi (5.5 MPa)

**Water Retention** ASTM C 91 74.0% 80.1%

**Absorption** ASTM C 642 8.3% 7.5%

**Appearance:** EUCO WINTER ADMIXTURE is a clear liquid with a deep blue color.

### PACKAGING

EUCO WINTER ADMIXTURE is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails, and 6/1 gal (3.8 L) units per case.

### SHELF LIFE

2 years in original, unopened package.

EUCO WINTER ADMIXTURE

Master Format #:  
04 05 13



**The Euclid Chemical Company**

19218 Redwood Rd. • Cleveland, OH 44110  
Phone: [216] 531-9222 • Toll-free: [800] 321-7628 • Fax: [216] 531-9596  
www.euclidchemical.com

An **RPM** Company



## SPECIFICATIONS/COMPLIANCES

- When tested according to ASTM C 494, Type C, EUCO WINTER ADMIXTURE complies and gives a freeze-thaw relative durability factor of 102%.
- In compliance with ASTM C 494, Type C requirements, this product will increase one day strength a minimum of 125% over plain and will quicken the setting time a minimum of 1 hour but no more than 3 hours and 30 minutes.

**NOTE:** This product does not protect plastic mortar from freezing. This product will allow the mortar to gain strength at a faster rate in cold weather. The mortar should achieve a minimum strength of 500 psi (3.4 MPa) before exposure to freezing temperatures.

## DOSAGE RATES

EUCO WINTER ADMIXTURE may be added directly to the gauging water [85 to 100°F (29 to 38°C) if possible] in the following proportions based on the temperatures expected during the 24 hours following the work:

<u>Temperature</u>	<u>EWA</u>	<u>Water</u>
25°F (-4°C)	1 gal (3.8 L)	15 gal (57 L)
20°F (-7°C)	1 gal (3.8 L)	10 gal (38 L)
15°F (-9°C)	1 gal (3.8 L)	7 gal (27 L)

Add an additional quart of EUCO WINTER ADMIXTURE for each bag of lime in the mix.

**OR**

EUCO WINTER ADMIXTURE may be added directly to each mortar batch. Add the quantity indicated per bag of cement and/or lime.

	<u>Daily Working Temperature*</u>		
	<u>32° (0°C)</u>	<u>25° (-4°C)</u>	<u>20° (-7°C)</u>
<b>Portland Cement Mortars</b>	1 quart (0.9 L)	1 1/2 quart (1.4 L)	2 quart (1.9 L)
<b>Masonry Cement</b>	1 pint (0.5 L)	1 1/2 pint (0.7 L)	1 quart (0.9 L)
<b>Colored Mortar</b>	1 pint (0.5 L)	1 1/2 pint (0.7 L)	1 quart (0.9 L)

\*The given temperatures are an assumed minimum with warming conditions.

## DIRECTIONS FOR USE

At the recommended dosage rate, EUCO WINTER ADMIXTURE is added directly to the gauging water.

The Euclid Chemical Company recommends the contractor follow typical cold weather concreting practices such as the guidelines in ACI 306.1-90, Standard Specification for Cold Weather Concreting.

## CLEAN-UP

Clean tools and equipment with water before mortar hardens.

## PRECAUTIONS/LIMITATIONS

- When filling metal door bucks and hollow metal window frames, the mortar must be stiff and packed tightly without voids.
- Use no more than the prescribed amount of EUCO WINTER ADMIXTURE.
- Test batches/mix design/sample slabs may be required due to variations in local cement and aggregate.
- Keep mortar from freezing until a minimum strength of 500 psi (3.4 MPa) is reached.
- Do not add EUCO WINTER ADMIXTURE directly to dry cement.
- In all cases, consult the Material Safety Data Sheet before use.

Rev. 10.09

**WARRANTY:** The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally shall alter this warranty. EUCLID MAKES NO WARRANTIES IMPLIED OR OTHERWISE AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.

**Material Safety Data Sheet****The Euclid Chemical Company****DIAMOND CLEAR VOX - 6/1 GAL DIAMOND CLEAR VOX - 6/1 GAL**

Version 1.1

Print Date 04/10/2010

REVISION DATE: 09/10/2007

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : DIAMOND CLEAR VOX - 6/1 GAL  
 Product code : 359VV 95

COMPANY : Euclid Chemical Company  
 19218 Redwood Road  
 Cleveland, OH 44110

Telephone : 1-800-321-7628  
 Emergency Phone: : U.S. only: 1-800-255-3924  
 International Users Call Collect: 1-813-248-0585

Product use : Coating

**SECTION 2 - HAZARDS IDENTIFICATION****Emergency Overview**

White, Liquid. No serious effects anticipated under normal conditions of use. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

**Acute Potential Health Effects/ Routes of Entry**

Inhalation : No serious effects anticipated under normal conditions of use.  
 Eyes : Direct contact may cause mild irritation.  
 Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.  
 Skin : May cause mild irritation.

**Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

Fillers are encapsulated and not expected to be released from product under normal conditions of use.

**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Water	7732-18-5	> 60.0
Acrylic polymer	NJ TSN# 51721300-5383P	15.0 - 40.0
1-Phenoxy-2-propanol	770-35-4	1.0 - 5.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

## Material Safety Data Sheet



The Euclid Chemical Company

**DIAMOND CLEAR VOX - 6/1 GALDIAMOND CLEAR VOX - 6/1 GAL**

Version 1.1

Print Date 04/10/2010

REVISION DATE: 09/10/2007

shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

- Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.
- Protective measures : Other equipment not normally required. Use professional judgment in the selection, care, and use.
- Engineering measures : Not required under normal conditions of use. Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

No known components with exposure limits.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Liquid
Color	: White
pH	: 9 - 10
Vapour pressure	: 17 mmHg
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: 32 °F, 0 °C
Boiling point/range	: 212 °F, 100 °C
Water solubility	: Soluble
Specific Gravity	: 1.025
% Volatile Weight	: 79.7 %

**SECTION 10 - REACTIVITY / STABILITY**

- Substances to avoid : Strong acids. Strong bases.
- Stability : Stable
- Hazardous polymerization : Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

No Data Available

**Material Safety Data Sheet****The Euclid Chemical Company****DIAMOND CLEAR VOX - 6/1 GAL DIAMOND CLEAR VOX - 6/1 GAL**

Version 1.1

REVISION DATE: 09/10/2007

Print Date 04/10/2010

**SECTION 16 - OTHER INFORMATION****HMIS Rating :**

Health	1
Flammability	0
Reactivity	0
PPE	

0 = Minimum  
 1 = Slight  
 2 = Moderate  
 3 = Serious  
 4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Rich Mikol****Legend**

ACGIH - American Conference of Governmental Hygienists

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

DOT - Department of Transportation

DSL - Domestic Substance List

EPA - Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC - International Agency for Research on Cancer

MSHA - Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

RTK - Right To Know

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

V - Volume

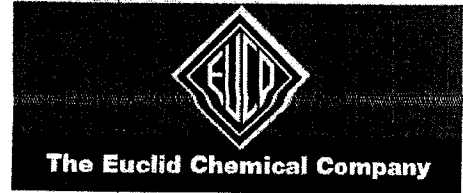
VOC - Volatile Organic Compound

WHMIS - Workplace Hazardous Materials Information System

EUC 011905

EUC 011955

Material Safety Data Sheet



**ACCELGUARD 80 - 55 GAL DRUM**

Version 2.  
REVISION DATE: 09/12/2008

Print Date 09/13/2008

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : ACCELGUARD 80 - 55 GAL DRUM  
 Product code : 019 55

COMPANY : Euclid Chemical Company  
 19218 Redwood Road  
 Cleveland, OH 44110

Telephone : 1-800-321-7628  
 Emergency Phone: : U.S. only: 1-800-424-9300  
 International Users Call Collect: 1-703-527-3887

Product use : Admixture

**SECTION 2 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Colorless. Liquid. No serious effects anticipated under normal conditions of use. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

**Acute Potential Health Effects/ Routes of Entry**

Inhalation : No serious effects anticipated under normal conditions of use.  
 Eyes : Direct contact may cause mild irritation.  
 Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.  
 Skin : May cause mild irritation.

**Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

Fillers are encapsulated and not expected to be released from product under normal conditions of use.

**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Water	7732-18-5	40.0 - 70.0
Calcium nitrate	10124-37-5	40.0 - 70.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.



**ACCELGUARD 80 - 55 GAL DRUM**

Version 2.  
REVISION DATE: 09/12/2008

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- Skin contact : Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Get medical attention. Do not induce vomiting.
- Notes to physician : Not applicable.

**SECTION 5 - FIRE FIGHTING MEASURES**

- Flash point : Not available.
- Method : Not available.
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : This product is not expected to burn under normal conditions of use.
- Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Smoke, fumes.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
- Fire and explosion conditions : This product not expected to ignite under normal conditions of use.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

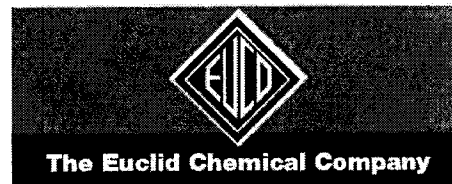
Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal. Use appropriate protective equipment. Avoid contact with material.

**SECTION 7 - HANDLING AND STORAGE**

Handle in compliance with common hygienic practices. Clean hands thoroughly after handling. Keep from freezing. Do not use in confined or poorly ventilated areas. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Store in sealed containers in a dry, ventilated warehouse location above freezing.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Personal protection equipment**
- Respiratory protection : Not required under normal conditions of use. Wear appropriate, NIOSH/MSHA approved respirator with combination particulate filter and vapor/gas removing cartridge when the ventilation is not adequate or if it is necessary to abrade or grind surfaces coated with this product.
  - Hand protection : Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.
  - Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily



**ACCELGUARD 80 - 55 GAL DRUM**

Version 2.  
REVISION DATE: 09/12/2008

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- available.
- Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.
- Protective measures : Other equipment not normally required. Use professional judgment in the selection, care, and use.
- Engineering measures : Not required under normal conditions of use. Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

No known components with exposure limits.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- Form : Liquid
- Color : Colorless
- Odor : None
- pH : 3.1 - 6.1
- Vapour pressure : Not available.
- Vapor density : Heavier than air
- Melting point/range : Not available.
- Freezing point : Not available.
- Boiling point/range : Not available.
- Water solubility : Soluble
- Specific Gravity : 1.442 - 1.450
- % Volatile Weight : 55.6 %

**SECTION 10 - REACTIVITY / STABILITY**

- Substances to avoid : Strong acids. Strong bases.
- Stability : Stable
- Hazardous polymerization : Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Calcium nitrate, CAS-No.: 10124-37-5  
Acute oral toxicity (LD-50 oral) 302 mg/kg ( Rat )



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**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method : Waste not regulated under RCRA. Dispose of in compliance with state and local regulations.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**TDG / DOT Shipping Description:**  
NOT REGULATED

**SECTION 15 - REGULATORY INFORMATION**

**North American Inventories:**

All components are listed or exempt from the TSCA inventory.  
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

**U.S. Federal Regulations:**

SARA 313 Components : Calcium nitrate 10124-37-5

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :  
Calcium nitrate 10124-37-5

OSHA Status: Considered : Irritant  
hazardous based on the  
following criteria:

OSHA Flammability : Not Regulated

Regulatory VOC (less water and : 0 g/l  
exempt solvent)  
VOC Method 310 : 0 %

**U.S. State Regulations:**

Penn RTK Components : Water 7732-18-5  
Calcium nitrate 10124-37-5

NJ RTK Components : Water 7732-18-5  
Calcium nitrate 10124-37-5

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:



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REVISION DATE: 09/12/2008

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None known.

**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	1
Flammability	0
Reactivity	0
PPE	

0 = Minimum  
1 = Slight  
2 = Moderate  
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**Further information:**

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**Prepared by: Rich Mikol**

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 NTP - National Toxicology Program  
 OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit  
 RCRA - Resource Conservation and Recovery Act  
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 STEL - Short Term Exposure Limit  
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