



MATERIAL SAFETY DATA SHEET

READY MIX CONCRETE

MSDS DATE: 05/27/2008

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ~~FRESHLY MIXED UNHARDENED CONCRETE~~
MANUFACTURER: S&W Ready Mix Concrete Company
ADDRESS: PO Box 872, Clinton, NC 28329
INFO PHONE: 910-592-0180
EMERGENCY PHONE: 910-214-8721
CHEMTREC PHONE: 800-424-9300
FAX PHONE: 910-592-9461

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL
SILICA, CRYSTALLINE - QUARTZ	14808-60-7	10 mg/m ³

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Inhalation, absorption, injection

POTENTIAL HEALTH EFFECTS

EYES: Irritation

INGESTION: N/A

SKIN: Drying out, alkali burns, dermatitis

INHALATION: Irritation, silicosis

ACUTE HEALTH HAZARDS: Fresh concrete can dry skin and cause alkali burns (cement dermatitis) - hardened concrete dust may irritate the respiratory system. Cement may contain trace amounts of chromium which may cause contact dermatitis.

CHRONIC HEALTH HAZARDS: Hypersensitive individuals may develop an allergic dermatitis. Excessive exposure to concrete dust over long periods of time may cause lung disease (silicosis).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Allergies to components of fresh concrete may be aggravated. Exposure to dust from disrupted hardened concrete may aggravate respiratory diseases and skin and eye conditions.

CARCINOGENICITY

OSHA: YES

ACGIH: NO

NTP: NO

IARC: NO

SECTION 3 NOTES: SILICA HAS BEEN LISTED BY OSHA AS A POTENTIAL CARCINOGEN

SECTION 4: FIRST AID MEASURES

EYES: FLOOD IMMEDIATELY & REPEATEDLY WITH WATER FOR AT LEAST 15 MINUTES

SKIN: WASH EXPOSED AREAS OF SKIN WITH SOAP AND WATER

INHALATION: MOVE TO FRESH AIR. SEEK MEDICAL ATTENTION FOR DISCOMFORT

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (LEL & UEL): N/A

FLASH POINT: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: NORMAL CLEANING, FLUSH AWAY WITH WATER OR BREAK-UP INTO MANAGEABLE SIZED UNITS

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: DURING MIXING / PLACING / FINISHING OF CONCRETE, PROLONGED EXPOSURE OF SKIN TO WET CONCRETE SHOULD BE AVOIDED

OTHER PRECAUTIONS: VENT / RESP PROTECTION SHOULD BE USED WHEN REMOVING / MODIFYING HARDENED CONCRETE



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : MECH / GENERAL FOR HARD MATERIAL REMOVAL OR MODIFICATION

RESPIRATORY PROTECTION: NIOSH APPROVED DUST RESPIRATOR WHEN MODIFYING HARD CONCRETE

EYE PROTECTION: YES PROTECTIVE GLOVES: YES OTHER PROTECTIVE CLOTHING OR EQUIPMENT: BOOTS

WORK HYGIENIC PRACTICES: WASH WITH SOAP & WATER IF CONTAMINATED

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: GRAY, PLASTIC, FLOWABLE; GRANULAR MIXTURE. FAINT, CHARACTERISTIC CEMENT ODOR

BOILING POINT, MELTING POINT, FREEZING POINT, VAPOR PRESSURE (mmHg), VAPOR DENSITY (AIR = 1), SPECIFIC GRAVITY (H₂O = 1), SOLUBILITY IN WATER, EVAPORATION RATE: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	<u>STABLE</u> XXX	<u>UNSTABLE</u>
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CONDITIONS TO AVOID (STABILITY): AVOID CONTACT WITH INCOMPATIBLE MATERIALS

INCOMPATIBILITY (MATERIAL TO AVOID): Ph=12, COULD REACT WITH STRONG ACIDS

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: RESPIRABLE PARTICLES MAY BE GENERATED IF HARDENED PRODUCT IS GRINDED, SAWED OR CHISELED

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: FRESH CONCRETE CAN BE RETAINED UNTIL IT HARDENS, THEN IT CAN BE DISPOSED OF AS COMMON WASTE.

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EUCLID CHEMICAL

ACCELGUARD HE - BULK GALLONS

Version 2.0

REVISION DATE: 07/08/2012

Print Date 07/09/2012

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : ACCELGUARD HE - BULK GALLONS
Product code : 25 99

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

Blue or 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	7732-18-6	> 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 medical attention.
Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.
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.

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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.
- 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 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

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general ventilation is inadequate.

Exposure Limits

No known components with exposure limits.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Color	: Blue or Brown
Odor	: None
pH	: 6 - 9
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	: 1.30 - 1.35
% 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)

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.

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SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

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 : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

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

OSHA Flammability : Not Regulated

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

VOC Method 310 : 0 %

U.S. State Regulations:

Penn RTK Components : Water 7732-18-5
Calcium chloride 10043-52-4

NJ RTK Components : Water 7732-18-5
Calcium chloride 10043-52-4

Components under California Proposition 65:

None known.

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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

Material Safety Data Sheet



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ACCELGUARD 80 - BULK GALLONS

Version 3.0

Print Date 07/09/2012

REVISION DATE: 07/08/2012

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : ACCELGUARD 80 - BULK GALLONS
Product code : 19 99

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.
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.

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- 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.
- 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 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

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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 - 1.480
% Volatile Weight	: 55.8 %

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)

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.

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SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

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
exempt solvent) : 0 g/l

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

Components under California Proposition 65:
None known.

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REVISION DATE: 07/08/2012

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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:

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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

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EUCLID CHEMICAL

AEA-92

Version 7.0

REVISION DATE: 02/07/2013

Print Date 02/08/2013

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : AEA-92
 Product code : 11A 99

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

Light Yellow. 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
Sodium (C14-16) Olefin Sulfonate	68439-57-6	5.0 - 10.0
Glutaraldehyde	111-30-8	0.1 - 1.0

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.

Skin contact : Wash area of contact thoroughly with hand cleaner followed by soap and water. If

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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.
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 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.

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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	: Light Yellow
Odor	: None
pH	: 8.5 - 11.5
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	: 1.015 +/- 0.01
% Volatile Weight	: 93.0 %

SECTION 10 - REACTIVITY / STABILITY

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

SECTION 11 - TOXICOLOGICAL INFORMATION

Glutaraldehyde, CAS-No.: 111-30-8	
Acute oral toxicity (LD-50 oral)	134 mg/kg (Rat) 820 mg/kg (Rat) 96.1 mg/kg (Rat) 100 mg/kg (Mouse) 1,300 mg/kg (Mouse) 122 mg/kg (Mouse)
Acute inhalation toxicity (LC-50)	5,000 mg/l for 4 h (Rat) 24 mg/l for 4 h (Rat) 40 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	2,560 mg/kg (Rabbit)

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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

CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

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 : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

Glutaraldehyde 111-30-8

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 %

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U.S. State Regulations:

MASS RTK Components	:	Formaldehyde	50-00-0
Penn RTK Components	:	Water	7732-18-5
		Sodium (C14-16) Olefin Sulfonate	68439-57-6
NJ RTK Components	:	Water	7732-18-5
		Sodium (C14-16) Olefin Sulfonate	68439-57-6

Components under California Proposition 65:

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

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	1
Flammability	0
Reactivity	0
PPE	

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

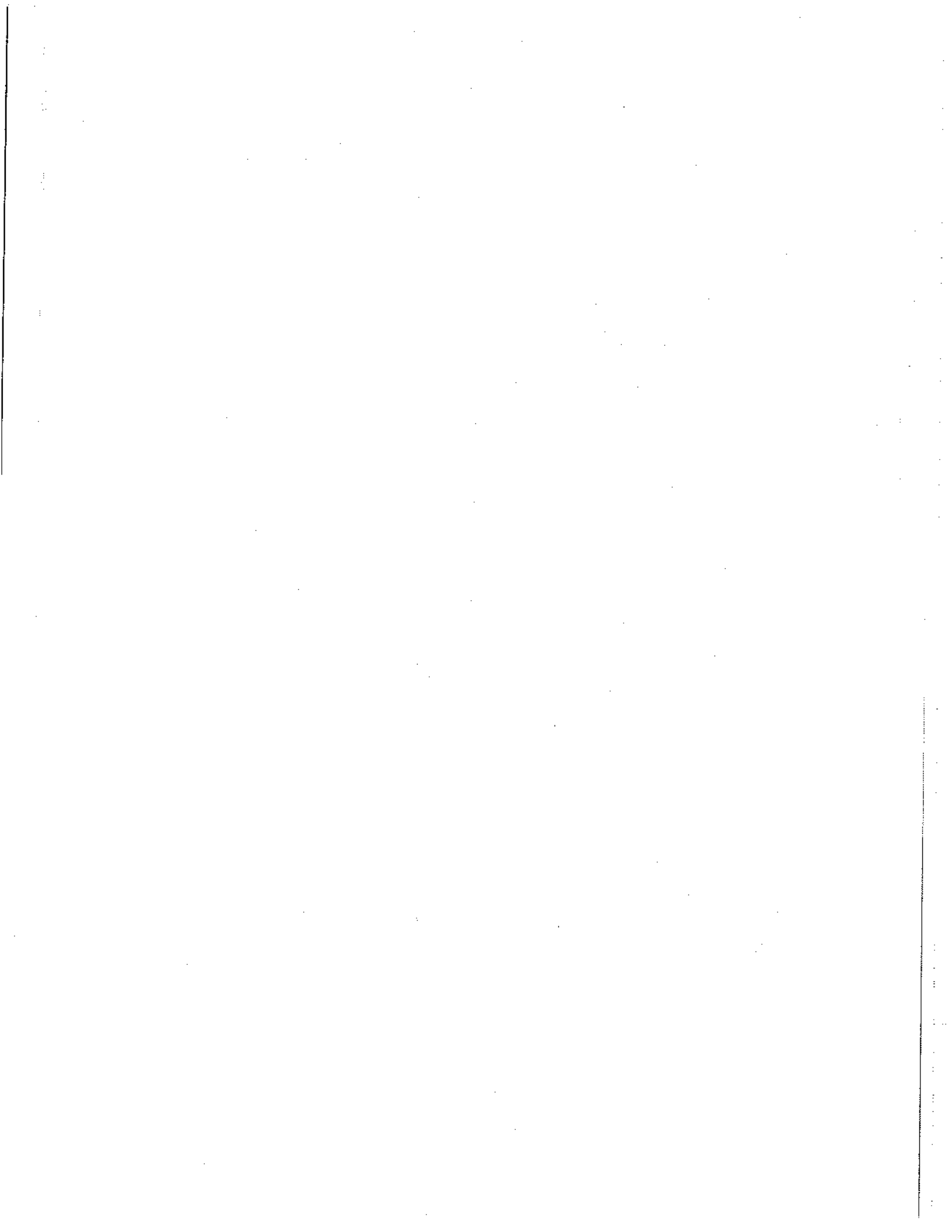
Further Information:

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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



Material Safety Data Sheet



EUCLID CHEMICAL

EUCON WO - BULK GALLONS

Version 7.0

REVISION DATE: 07/26/2012

Print Date 08/02/2012

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : EUCON WO - BULK GALLONS
Product code : 10W 99

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

Brown. Liquid. Mist may irritate respiratory tract. May cause chemical burns to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : Mist may irritate respiratory tract. May cause chemical burns to the respiratory system.
Eyes : Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.
Ingestion : May cause irritation to the mouth, throat and stomach. May cause chemical burns to stomach, mouth, nose, and throat.
Skin : May cause moderate irritation. May cause sensitization resulting in irritation, itching and redness. May cause dryness, cracking, irritation, and chemical burns.

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.

Target Organs: Skin, Eye

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Water	7732-18-5	> 60.0
Phosphonic acid	6419-19-8	7.0 - 13.0
Sodium hydroxide	1310-73-2	5.0 - 10.0
Sodium gluconate	527-07-1	3.0 - 7.0

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

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Print Date 08/02/2012

REVISION DATE: 07/26/2012

- 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.
- 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 : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- 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.
- 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 available.

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EUCON WO - BULK GALLONS

Version 7.0

Print Date 08/02/2012

REVISION DATE: 07/26/2012

- 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 : Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Sodium hydroxide	1310-73-2	OSHA PEL:	2 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid
- Color : Brown
- Odor : None
- pH : 5 - 7
- Vapour pressure : Not available.
- Vapor density : Heavier than air
- Melting point/range : Not available.
- Freezing point : Not available.
- Boiling point/range : > 212 °F, > 100 °C
- Water solubility : Soluble
- Specific Gravity : 1.12 +/- 0.01
- % Volatile Weight : 81.8 %

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



EUCLID CHEMICAL

EUCON WO - BULK GALLONS

Version 7.0

REVISION DATE: 07/26/2012

Print Date 08/02/2012

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

CFR / DOT:

UN1760, Corrosive liquids, n.o.s. (Sodium Hydroxide), 8, PG III

TDG:

UN1760, CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide), 8, PG III

IMDG:

UN1760, CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide), 8, PG III

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

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 : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

Phosphonic acid 6419-19-8

Sodium hydroxide 1310-73-2

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

OSHA Flammability : Not Regulated

Regulatory VOC (less water and
exempt solvent) : 6 g/l

Material Safety Data Sheet



EUCLID CHEMICAL

EUCON WO - BULK GALLONS

Version 7.0

Print Date 08/02/2012

REVISION DATE: 07/28/2012

VOC Method 310 : 0 %

U.S. State Regulations:

MASS RTK Components : Sodium hydroxide 1310-73-2

Penn RTK Components : Water 7732-18-5
 Phosphonic acid 6419-19-8
 Sodium hydroxide 1310-73-2
 Sodium gluconate 527-07-1

NJ RTK Components : Water 7732-18-5
 Phosphonic acid 6419-19-8
 Sodium hydroxide 1310-73-2
 Sodium gluconate 527-07-1

Components under California Proposition 65:

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

SECTION 16 - OTHER INFORMATION

HMS Rating :

Health	2
Flammability	0
Reactivity	0
PPE	

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

Further information:

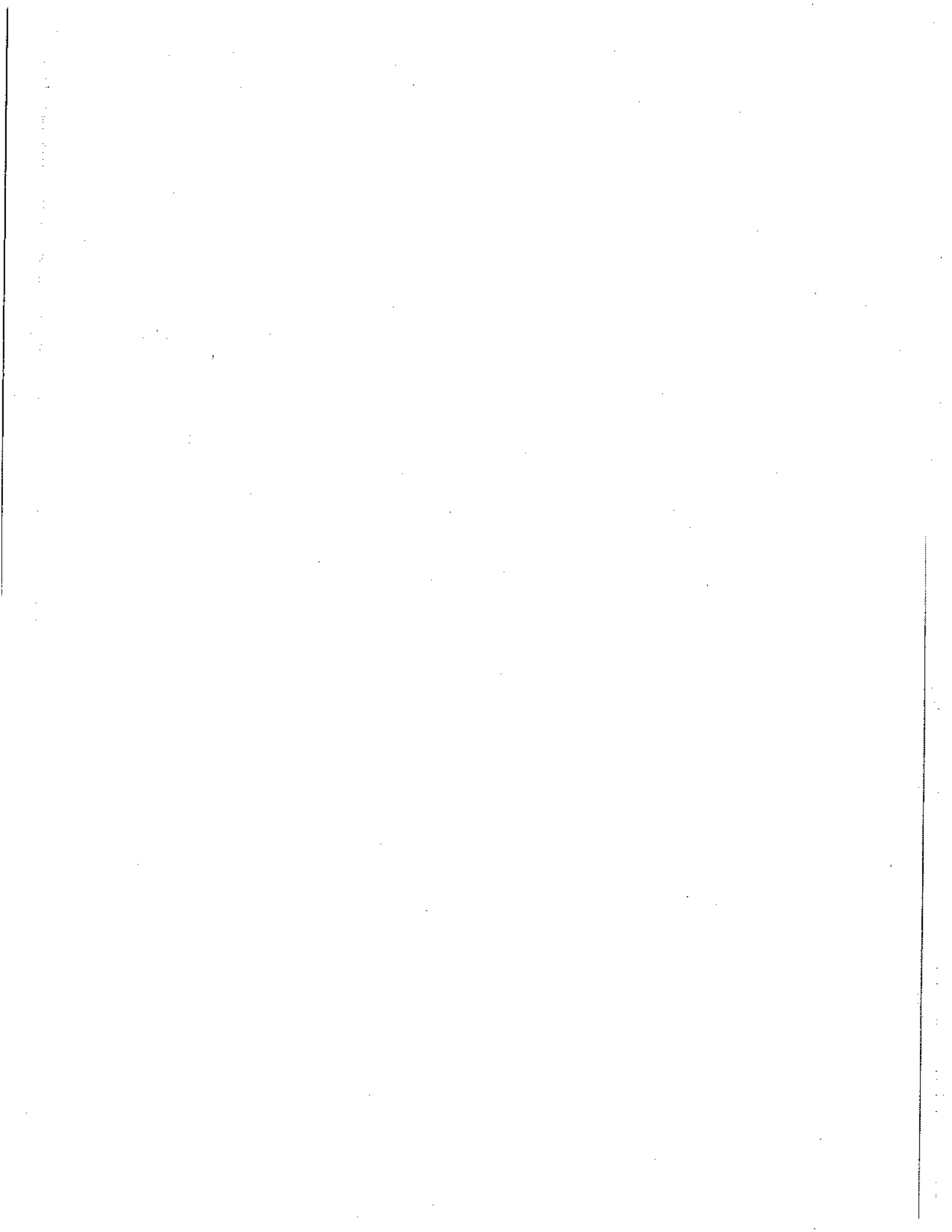
For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

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



Material Safety Data Sheet



EUCLID CHEMICAL

EUCON 37 - BULK GALLONS

Version 5.0

REVISION DATE: 02/01/2013

Print Date 02/05/2013

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : EUCON 37 - BULK GALLONS
Product code : 10-99

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

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	40.0 - 70.0
Naphthalene sulfonate	36290-04-7	30.0 - 60.0
Sodium sulfate	7757-82-8	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.
Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.
Skin contact : Wash area of contact thoroughly with hand cleaner followed by soap and water. If

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EUCON 37 - BULK GALLONS

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Print Date 02/05/2013

REVISION DATE: 02/01/2013

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.
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 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.

Material Safety Data Sheet



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EUCON 37 - BULK GALLONS

Version 5.0

REVISION DATE: 02/01/2013

Print Date: 02/05/2013

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 : Light
pH : 8 - 10
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 : 1.2025
% Volatile Weight : 57.1 %

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

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.

Material Safety Data Sheet



EUCLID CHEMICAL

EUCON 37 - BULK GALLONS

Version 5.0

REVISION DATE: 02/01/2013

Print Date 02/05/2013

SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

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 : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

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

OSHA Flammability : Not Regulated

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

VOC Method 310 : 0%

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

U.S. State Regulations:

MASS RTK Components : Sodium sulfate 7757-82-6
Formaldehyde 50-00-0

Penn RTK Components : Water 7732-18-5
Naphthalene sulfonate 36290-04-7
Sodium sulfate 7757-82-6

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EUCON 37 - BULK GALLONS

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Print Date 02/05/2013

REVISION DATE: 02/01/2013

NJ RTK Components	:	Water	7732-18-5
		Naphthalene sulfonate	36290-04-7
		Sodium sulfate	7757-82-6

Components under California Proposition 65:

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

SECTION 16 - OTHER INFORMATION

HMS Rating :

Health	1
Flammability	0
Reactivity	0
PPE	

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

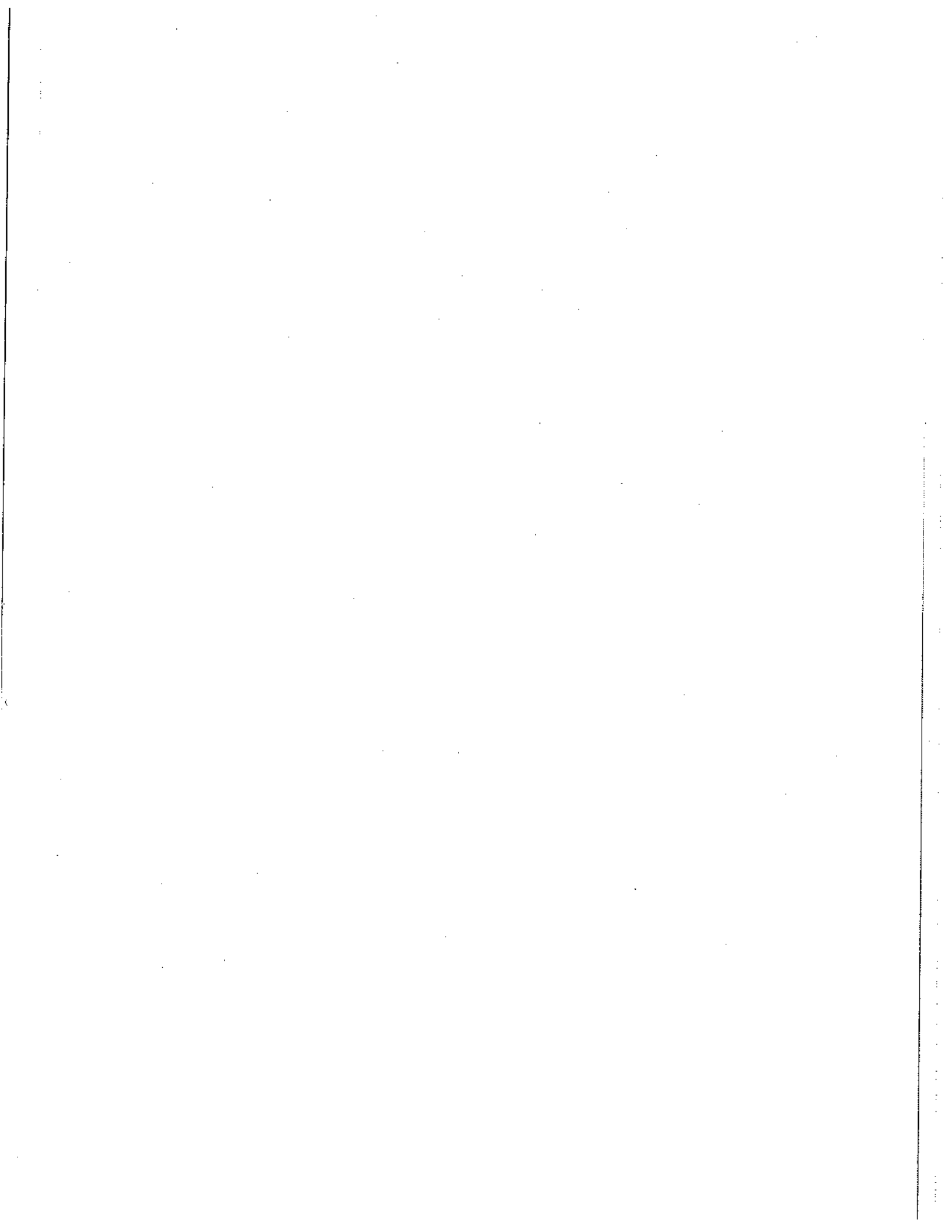
Further Information:

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



Material Safety Data Sheet



EUCLID CHEMICAL

EUCON MR - BULK GALLONS

Version 5.0

REVISION DATE: 02/07/2013

Print Date 02/08/2013

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : EUCON MR - BULK GALLONS
Product code : 26A 99

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

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	40.0 - 70.0
Calcium nitrate	10124-37-5	15.0 - 40.0
Calcium lignosulfonate	8061-52-7	15.0 - 40.0
Sodium gluconate	527-07-1	1.0 - 5.0
Sodium thiocyanate	540-72-7	1.0 - 5.0
Glutaraldehyde	111-30-8	0.1 - 1.0

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.

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EUCON MR - BULK GALLONS

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Print Date 02/08/2013

REVISION DATE: 02/07/2013

- Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.
- 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.
- 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 available.
- Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.

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EUCON MR - BULK GALLONS

Version 5.0

Print Date 02/08/2013

REVISION DATE: 02/07/2013

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 : Slight
pH : 6 - 8
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 : 1.285 +/- 0.015
% Volatile Weight : 57.2 %

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)

Glutaraldehyde, CAS-No.: 111-30-8
Acute oral toxicity (LD-50 oral) 134 mg/kg (Rat) 820 mg/kg (Rat) 96.1 mg/kg (Rat) 100 mg/kg (Mouse) 1,300 mg/kg (Mouse) 122 mg/kg (Mouse)
Acute inhalation toxicity (LC-50) 5,000 mg/l for 4 h (Rat) 24 mg/l for 4 h (Rat) 40 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal) 2,560 mg/kg (Rabbit)

Material Safety Data Sheet



EUCLID CHEMICAL

EUCON MR - BULK GALLONS

Version 5.0

Print Date 02/08/2013

REVISION DATE: 02/07/2013

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

CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

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

Glutaraldehyde 111-30-8

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

OSHA Flammability : Not Regulated

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

VOC Method 310 : 0 %

Material Safety Data Sheet



EUCLID CHEMICAL

EUCON MR - BULK GALLONS

Version 5.0

REVISION DATE: 02/07/2013

Print Date 02/08/2013

U.S. State Regulations:

Perin RTK Components	:	Water	7732-18-5
		Calcium nitrate	10124-37-5
		Calcium lignosulfonate	8081-52-7
NJ RTK Components	:	Water	7732-18-5
		Calcium nitrate	10124-37-5
		Calcium lignosulfonate	8061-52-7
		Sodium gluconate	527-07-1
		Sodium thiocyanate	540-72-7

Components under California Proposition 65:

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

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:

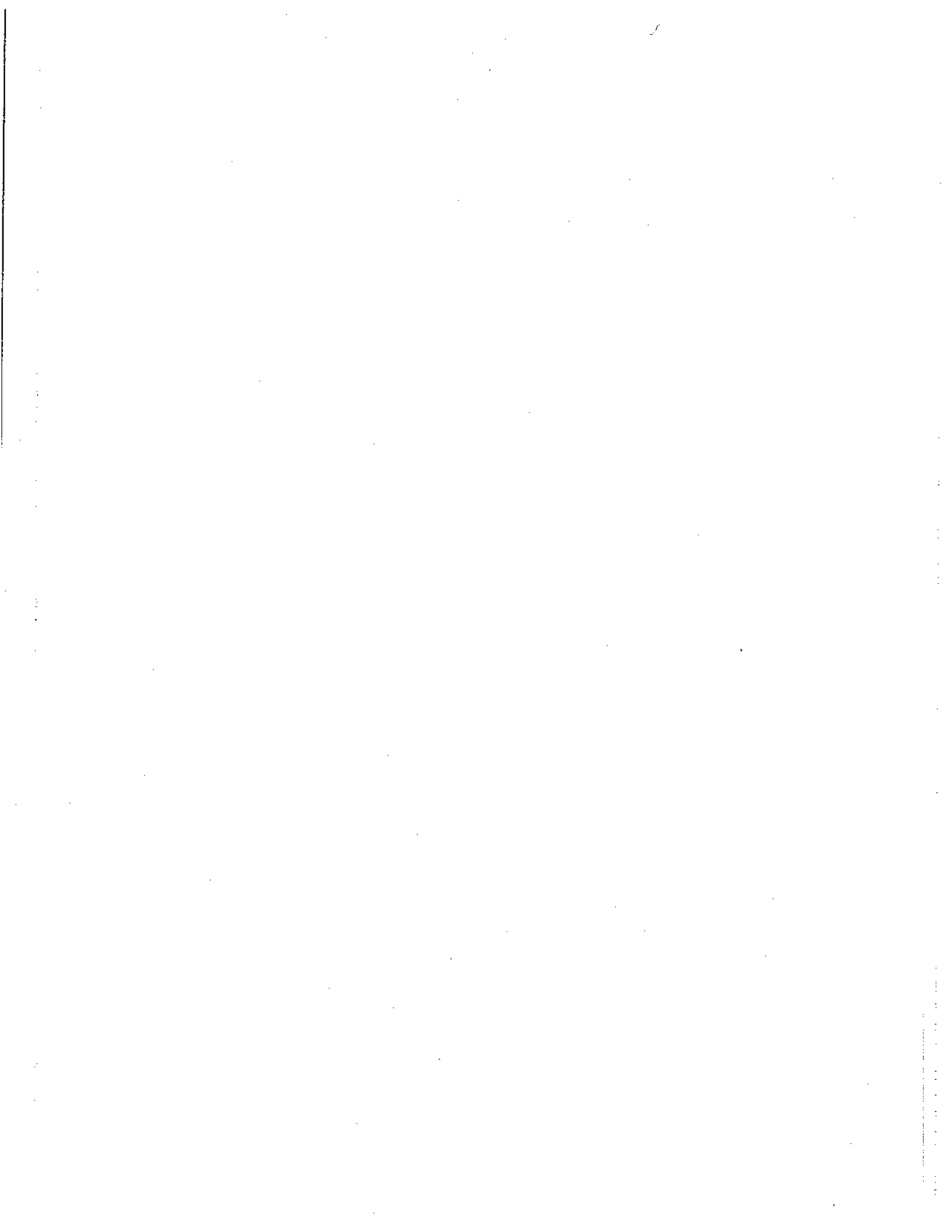
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Prepared by: Rich Mikol

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



Material Safety Data Sheet



EUCLID CHEMICAL

EUCON WR - BULK GALLONS

Version 5.0

REVISION DATE: 02/07/2013

Print Date 02/08/2013

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : EUCON WR - BULK GALLONS
Product code : 15 99

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

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

Filters 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 lignosulfonate	8061-52-7	15.0 - 40.0
Sodium lignosulfonate	8061-51-6	10.0 - 30.0
Triethanolamine	102-71-6	1.0 - 5.0
Glutaraldehyde	111-30-8	0.1 - 1.0

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.

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- Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.
- 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.
- 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 available.
- Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.

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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

Chemical Name	CAS Number	Regulation	Limit	Form
Triethanolamine	102-71-6	ACGIH TWA:	5 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
 Color : Brown
 Odor : Woody
 pH : 6.6 - 9.6
 Vapour pressure : Not available.
 Vapor density : Heavier than air
 Melting point/range : Not available.
 Freezing point : Not available.
 Boiling point/range : 311 - 344 °F, 155 - 173 °C
 Water solubility : Soluble
 Specific Gravity : 1.185 +/- 0.015
 % Volatile Weight : 63.1 %

SECTION 10 - REACTIVITY / STABILITY

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

SECTION 11 - TOXICOLOGICAL INFORMATION

Sodium lignosulfonate, CAS-No.: 8061-51-6
 Acute oral toxicity (LD-50 oral) 40,000 mg/kg (Rat)

Triethanolamine, CAS-No.: 102-71-6
 Acute oral toxicity (LD-50 oral) 8,680 mg/kg (Rat) 8,000 mg/kg (Guinea pig)
 Acute dermal toxicity (LD-50 dermal) 20,000 mg/kg (Rabbit)

Glutaraldehyde, CAS-No.: 111-30-8
 Acute oral toxicity (LD-50 oral) 134 mg/kg (Rat) 820 mg/kg (Rat) 96.1 mg/kg (Rat) 100 mg/kg (Mouse) 1,300 mg/kg (Mouse) 122 mg/kg (Mouse)

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Acute inhalation toxicity (LC-50) 5,000 mg/l for 4 h (Rat) 24 mg/l for 4 h (Rat) 40 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal) 2,560 mg/kg (Rabbit)

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

CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

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 : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

Triethanolamine 102-71-6
Glutaraldehyde 111-30-8

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

OSHA Flammability : Not Regulated

