

VOBAN24

MATERIAL SAFETY DATA SHEET

Date Issued:
Supersedes:
Page:

January 2009
August 2007
Page 1 of 2

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: VoBan® Vomitus Absorbent

Manufacturer: FMS, Inc. P.O. Box 278539, Riverdale, Illinois 60827

Emergency Phone: (INFOTRAC): (800) 535-5053 **Reference:** FMS
Information Phone: (708) 201-7200

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO	%
Proprietary Information		100%

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: Direct contact with this material may cause minimal eye and skin irritation. May cause irritation to the nose, throat, and respiratory passages through extended use.

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower lids occasionally. If irritation persists, get medical attention.
INHALATION: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.
INGESTION: If large amounts are swallowed, get immediate medical attention.
SKIN CONTACT: Wash exposed skin with soap and water. If any irritation develops, seek medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable.

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use normal agents for extinguishing wood fires – water spray, carbon dioxide dry chemical. Material will support combustion. May be drenched with water to reduce fire hazard. Material may smolder after it is involved in a fire. Spread material out and be sure fire is extinguished.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Sweep up material and return to container or discard. Dispose in accordance with all Federal, State, and local laws.

7. HANDLING AND STORAGE

Store out of reach of children. Keep container closed and properly labeled when not in use. Store in a cool, dry, well-ventilated place away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating drinking, or smoking, wash hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Orange granular solid	VAPOR DENSITY:	Not applicable
ODOR:	Wintergreen-Mint odor	SPECIFIC GRAVITY:	2.35 lbs per gal.
BOILING POINT:	Not applicable	SOLUBILITY:	Negligible

10. STABILITY AND REACTIVITY

STABILITY:	Stable	INCOMPATIBLE MATERIALS:	Strong oxidizers
CONDITIONS TO AVOID:	Ignition sources	BY-PRODUCTS:	None known.
POLYMERIZATION:	Will not occur		

11. TOXICOLOGICAL INFORMATION

California Proposition 65 Warning: - Contains these chemicals known to California to cause cancer or reproductive toxicity: Chromium*, lead, mercury, C.I. Solvent Yellow 14. (*Hexavalent chromium is a listed chemical. Minute traces may be listed in the total chromium indicated.) Please note: All listed items are contained in the colorant.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL INFORMATION

PRODUCT: Dispose of material according to all applicable local, state and Federal regulations.
CONTAINER: Do not reuse empty container. Offer for recycling, or puncture and dispose of in a sanitary landfill.

4. TRANSPORT INFORMATION

SHIPPING NAME:	Not Applicable / Not Regulated	HAZARD CLASS:	Not Applicable
UN NUMBER:	Not Applicable		

15. REGULATORY INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 72), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311), etc.

COMPONENT	CAS NO	de min (%)	TPQ(lbs)	RQ(lbs) S313	TSCA 12(b)
C.I. Solvent Yellow 14	842-07-9	1.0			

16. OTHER INFORMATION

NFPA HAZARD RATING (National Fire Protection Association)

HEALTH:	0	4 - Extreme
FIRE:	0	3 - High
REACTIVITY:	0	2 - Moderate
SPECIAL:	-	1 - Slight
		0 - Insignificant

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.



HMIS RATINGS:

Health: 1

Flammability: 0

Reactivity: 0

Personal Protection: B

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: VOMIT CONTROL (P-137)

Chemical Family: Deodorant

Company Identification: ABC COMPOUNDING CO., INC.

PO BOX 16247

ATLANTA, GA 30321-0247

Emergency Phone: 800-535-5053

Date Prepared: 06/18/07

MSDS Number: 7137

Mfgd By: ABC COMPOUNDING CO., INC.

PO BOX 16247

ATLANTA, GA 30321-0247

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	% BY WGHT.	OSHA PEL/ ACGIH TLV	SARA 302/304 (1)*	SARA 313 (2)*	STATE INFO (3) (4)
119-36-8	Methyl Salicylate	< 2.0	n/e / n/e	NO	NO	NO
8002-09-3	Pine Oil	< 3.0	n/e / n/e	NO	NO	NO

* See Section 15 for more information

n/e = none established - n/a = not applicable

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION. This product is an eye irritant. Ingestion may cause nausea, vomiting and diarrhea.

Primary Route of Entry: Eye contact, skin contact

Acute/Potential Health Effects:

EYES: Eye contact may result in irritation and redness.

SKIN: Prolonged and repeated contact can defat the skin, which may result in dryness, dermatitis and cracking of the skin.

INHALATION: Excessive inhalation may be irritating to respiratory tract.

INGESTION: May cause nausea, vomiting and diarrhea.

Chronic / Long Term Effects: No known chronic effects.

Signs and Symptoms of Overexposure: Skin overexposure can cause dermatitis.

Target Organ Effects: No data.

Reproductive/Developmental Information: No data.

Carcinogenic Information: This material is not listed as a carcinogen by IARC, NTP or OSHA.

Section 4: FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes.

Trade Name: VOMIT CONTROL (P-137)

MSDS Number: 7137

Get medical attention if irritation persists.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Give large quantities of water or milk. Induce vomiting. Get medical attention.

Section 5: FIRE FIGHTING MEASURES

Flash Point: No flash by standard methods.

Extinguishing Media: Use appropriate methods for combating surrounding fire.

Special Fire Fighting Instructions: Wear a self contained breathing apparatus with a full face piece operated in the positive pressure demand mode. Chemical resistant PPE is recommended.

Section 6: ACCIDENTAL RELEASE MEASURES

Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Carefully shovel or sweep up solid material. Close containers tightly, properly label and store in a secure area for reprocessing or disposal.

Section 7: HANDLING AND STORAGE

Store in a cool, dry area. Keep container closed when not in use. Keep out of reach of children.

Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

Eye Protection: Wear safety glasses or goggles.

Skin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, vinyl or nitrile).

Respiratory Protection: When respiratory protection is required, use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements must be followed.

Engineering Controls: Good general ventilation required.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Dry, granular mixture with spearmint fragrance

pH Concentrate: n/a

Solubility in Water: Negligible

Vapor Pressure [mmHg]: n/a

Evaporation Rate (Butyl Acetate=1): n/a

Vapor Density [Air=1]: n/a

Specific Gravity [H2O=1]: n/a

Boiling Point: n/a

Section 10: REACTIVITY

Trade Name: VOMIT CONTROL (P-137)

MSDS Number: 7137

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to avoid: High temperature
Hazardous Decomposition Products: CO, CO2
Incompatibility: Oxidizers

Section 11: TOXICOLOGICAL INFORMATION

No data.

Section 12: ECOLOGICAL INFORMATION

No data.

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Wastes must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: TRANSPORTATION INFORMATION

D.O.T. Shipping Name / Class:

Not regulated

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA (Toxic Substances Control Act): The intentional ingredients of product are listed.

Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic () Fire () Pressure () Reactive () Not Applicable ()

(1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355 Appendix A

(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s)
None

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.

(3) California proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986)

(4) Massachusetts (Hazardous Substance Disclosure by Employers)

Trade Name: VOMIT CONTROL (P-137)

MSDS Number: 7137

Section 16: OTHER INFORMATION

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

FP#Super Sorb**Material Safety Data Sheet****Section 1****Chemical Product & Company Information**

Emergency Contact: (Spill/Release) (800) 424-9300

Information Number: (419) 531-9741

Manufactured By:

Fresh Products
4010 South Avenue
Toledo, OH 43615

Product Name: Super Sorb Instant Liquid & Vomit Absorbent

Product Numbers: 6-14-SS, 17.5-SS

Section 2**Composition/Information on Ingredients**

Cellulose: C.A.S. # Not Available

OSHA PEL: Not Available ACGIH: Not Available

Other Limits: Not Available

Absorbent Polymer: C.A.S. # 80323-79-7

OSHA PEL: Not Available ACGIH: Not Available

Other Limits: Not Available

Isopropyl Alcohol: C.A.S. # 67-63-0

OSHA PEL: 400ppm ACGIH: 400ppm

Other Limits: Not Available

Proprietary Fragrance: C.A.S. # Not Available

OSHA PEL: Not Available ACGIH: Not Available

Other Limits: Not Available

N-alkyl (C14-85%, C12-3%, C18-2%) dimethyl

benzyl ammonium chloride dihydrate CAS #138-08-02

OSHA PEL: Not Available ACGIH: Not Available

Other Limits: Not Available

Microbiocide: C.A.S. # 26172-58-4 & 2682-20-4

OSHA PEL: Not Available ACGIH: Not Available

Other Limits: Not Available

Section 3**Hazards Identifications**

HMIS Codes:

Health: 1 Flammability: 0 Reactivity: 0

Flash Point: Not Applicable

Flammability Limits: Not Established

LEL: None UEL: None

Section 4**First Aid Measures**

Emergency and First Aid Procedures:

Eyes: Rinse with water. Remove contact lenses, flush eyes with water for 15 minutes. If irritation persists, see physician.

Skin: Rinse area with water.

Ingestion: Induce vomiting. Call a physician.

Inhalation: If inhaled in large quantities, move affected person to fresh air.

Section 5**Fire Fighting Measures**

Extinguishing Media: Water spray, carbon dioxide, dry chemical

Special Fire Fighting Procedures: Full protective equipment, including pressure demand self-contained breathing apparatus and turnout equipment should be worn by fire fighters and others exposed to combustion by products.

Unusual Fire & Explosion Hazards: Implement standard safety procedures for handling finely divided organic powders. Eliminate sources of ignition such as static build up.

Section 6**Accidental Release Measures**

Steps to be taken in case of material release or spill: Sweep up.

Section 7**Handling and Storage**

Precautions to be taken in handling and storing: Keep out of the reach of children. Store in closed container in a dry area away from heat, open flame, high humidity, and sources of ignition.

Other Precautions: Keep away from open flame. Always practice good housekeeping and hygienic measures.

Section 8**Exposure Controls/Personal Protection**

Respiratory Protection: If nuisance dust is over 10mg/cubic meter, use ninth approved dust mask.

Ventilation: Local Exhaust: Keep down nuisance dust.

Special: Not Applicable

Mechanical: Not Applicable

Other: Not Applicable

Protective Gloves: None

Eye Protection: Goggles

Other Protective Clothing or Equipment: None Known

Work/Hygiene Practices: Wash thoroughly with soap and water after coming in contact with product.

Section 9**Physical and Chemical Properties**

Boiling Point: Not Applicable

Vapor Pressure: Not Established

Vapor Density (Air=1): <1

Specific Gravity (Water=1): 1.21

Melting Point: Not Applicable

Evaporation Rate: (Butyl Acetate = 1) Not Applicable

Solubility in water: Forms gel

Appearance: Lemon scented tan powder

Section 10**Stability and Reactivity**

Stability: Stable

Conditions to Avoid: Extreme heat, fire

Incompatible Materials: Strong oxidizing materials such as sodium, potassium hydroxide.

Hazardous Decomposition Products: Oxides of carbon when burned.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Sources of ignition.

Section 11**Toxicological Information**

Routes of Entry:

Inhalation: Possible Skin: Possible Eyes: Possible

Ingestion: Possible

Health hazards (acute & chronic): Exposure to low levels of dust can result in lung irritation and inflammation.

Eyes: May cause irritation

Skin: May cause irritation

Ingestion: May cause nausea, abdominal pain, diarrhea, vomiting

Inhalation: Low levels of airborne dust can result in lung irritation and inflammation

Carcinogenicity: NTP: Not Listed IARC: Not Listed

OSHA Regulated: Not Listed Other: Not Listed

Signs & Symptoms of Exposure:

Eyes and Skin: Irritation, redness

Inhalation: Coughing, sneezing

Ingestion: Nausea, abdominal pain, diarrhea, vomiting

Medical conditions generally aggravated by exposure: Nuisance dust may aggravate respiratory conditions.

Section 12**Ecological Information**

Not Established

Section 13**Disposal Considerations**

Waste Disposal Method: Dispose in accordance with applicable federal, state, and local laws and regulations.

Section 14**Transport Information**

DOT Classifications: Non Hazardous

Section 15**Regulatory Information**

None Required

Section 16**Other Information**

None Required

Date Prepared: September 23, 2009

By: Jeff Smith, Ph.D./Chief Chemist

Frank Miller & Sons, Inc.

13831 South Emerald Avenue
Riverdale, IL 60827

Emergency Phone (INFOTRAC):

(800) 535-5053

Information Phone:

Reference: FMS

(708) 201-7200

Date Issued:

11/01/99

Supersedes:

01/05/96

Product Code:

VoBan®

MATERIAL SAFETY DATA SHEET

VoBan® Vomitus Absorbent

1. INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% By Wt.
Proprietary Formula	Mixture	100.00
	Total:	100.00%

2. HEALTH DATA

PRIMARY ROUTES OF ENTRY:

Dermal/Eye: Yes Oral: No Inhalation: Yes

SYMPTOMS OF OVEREXPOSURE:

Eye irritation. Skin irritation, or dermatitis.

ACUTE HEALTH EFFECTS:

Inhalation:

May cause irritation to the nose, throat, and respiratory passages.

Eyes:

Contact may cause mechanical irritation and possible injury.

Skin:

No adverse effects expected.

Ingestion:

No adverse effects expected for normal, incidental ingestion.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Dermatitis. Existing respiratory conditions, including but not limited to, asthma and bronchitis.

CHRONIC HEALTH EFFECTS:

None known.

Agency Listed Carcinogens:

NTP
No

IARC
No

OSHA
No

CA Prop 65
Yes

3. FIRST AID MEASURES

EYE CONTACT:	Immediately flush eyes with a large amounts of water for at least 15 minutes, lifting the upper and lower lids occasionally. If irritation persists, or for imbedded foreign object, get medical attention immediately.
INHALATION:	Remove victim to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have trained person administer artificial respiration. Get medical attention immediately.
INGESTION:	If large amounts are swallowed, get immediate medical attention.
SKIN CONTACT:	Wash exposed skin with soap and water. If any irritation develops, seek medical attention.
NOTE TO PHYSICIAN:	Treat symptomatically.

4. FIRE FIGHTING MEASURES

FLASH POINT:	Not applicable.
FLASH POINT METHOD USED:	Not applicable.
EXTINGUISHING MEDIA:	Normal agents for extinguishing wood fires – water spray, carbon dioxide dry chemical.
COMBUSTION PRODUCTS:	Carbon dioxide and carbon monoxide upon combustion.
SPECIAL FIRE FIGHTING PROCEDURES:	Material will support combustion. May be drenched with water to reduce fire hazard. Material may smolder after it is involved in a fire. Spread material out and be sure fire is extinguished.
UNUSUAL FIRE & EXPLOSION HAZARDS:	None

5. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Sweep up material and return to container or discard. Dispose in accordance with all Federal, State and local laws.

6. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store out of the reach of children. Keep container closed and properly labeled when not in use. Store in a cool, dry, well-ventilated place away from incompatible materials.

WORK HYGIENIC PRACTICE

Wash nondisposable gloves thoroughly with soap and water before removing. After using this product, thoroughly wash hands and exposed skin with soap and water. Do not eat, smoke or drink when using this product.

7. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION:	None necessary under normal conditions.
VENTILATION:	Provide local exhaust ventilation.
PROTECTIVE GLOVES:	Rubber gloves.
EYE PROTECTION:	Chemical safety glasses.
OTHER PROTECTIVE EQUIPMENT:	For brief contact, no precautions other than body-covering clothing should be needed. Wear long-sleeved shirt, long pants, socks and shoes.

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Granular solid. Wintergreen-mint odor
SOLUBILITY (wt. % at 77°F)	Negligible
BOILING POINT:	Not Applicable
SPECIFIC GRAVITY:	Approx. 2.35 lbs. per gal.
VAPOR DENSITY (Air =1):	Not Applicable
FREEZING POINT:	Not Applicable

9. STABILITY AND REACTIVITY

STABILITY:	Stable.
CONDITIONS TO AVOID:	Ignition sources.
INCOMPATIBILITY:	Strong oxidizers.
HAZARDOUS BY-PRODUCTS:	None known.
HAZARDOUS POLYMERIZATION:	Will not occur.

10. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:	No information available.
ECOTOXICITY:	No information available.

11. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:	Dispose of material according to all applicable local, state and Federal regulations
CONTAINER DISPOSAL:	"Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not reuse empty container. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of according to all local, state and Federal regulations.

12. TRANSPORTATION INFORMATION

D.O.T. REGULATED CONTAINER SIZE: None
PROPER SHIPPING NAME: Not D.O.T. Regulated

13. REGULATORY INFORMATION

This information must be included in all MSDS' that are copied and distributed for this material.

SARA TITLE III, Section 311: This product is not considered to be a health hazard.

SARA TITLE III, Section 312: This product contains the following substances subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) of 1986 if threshold quantity criteria are met:

Component	CAS NO.	T.P.Q. (Lbs.)
None		

SARA TITLE III, Section 313: This product contains the following substances subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) of 1986 if threshold quantity criteria are met:

Component	CAS NO.	De minimus
C.I. Solvent Yellow 14	000842-07-9	1.0%

SARA TITLE III, Section 304: CERCLA Hazardous Substances. This product contains the following substances subject to the reporting requirements under Section 304 of the Superfund Amendments and Reauthorization Act (SARA) of 1986:

Component	CAS NO.	RQ (Lbs.)
None		

For releases greater than the RQ, contact the National Response Center at (800) 424-8802.

Hazardous Materials Identification System

HMIS INFORMATION

HEALTH: 0
FLAMMABILITY: 1
REACTIVITY: 0
PROTECTIVE: B

4 - Severe
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal
B - Safety glasses, gloves.

National Fire Protection Association

NFPA INFORMATION

HEALTH: 0
FIRE: 1
REACTIVITY: 0
SPECIFIC: N

4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant
N - None

The information contained herein is based in the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

KENDALL AND SON LTD.

24 HR EMERGENCY PHONE
CHEMTREC 800-424-9300

HMIS
Codes

H 0
F 0
R 0
P X

MATERIAL SAFETY DATA SHEET

MANUFACTURER: K & K Chemical Co.
TELEPHONE NO.: (800) 327-0646
ADDRESS: 1303 Industrial Drive, Royse City, TX 75189

PRODUCT: PUKE-UP™ WITH QUATEX II™
PART NUMBER(S): S-420

MSDS Prepared By: J. Austin Maglothlin, Ph.D.
Revision Date: April 29, 1997

SECTION I - GENERAL

Chemical Name & Synonym
Trade Name & Synonyms
Chemical Family
Formula

Not Applicable
PUKE-UP™ WITH QUATEX II™
Chemically treated organic absorbent
Trade Secret

SECTION II - HAZARDOUS INGREDIENTS

No hazardous ingredients >1%

SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C)
Vapor Pressure (MM Hg @ 20°C)
Vapor Density (Air = 1)
Specific Gravity (H₂O = 1)
% Volatile by Volume
Evaporation Rate (H₂O = 1)
Solubility in Water
Appearance and Odor
Others

Not Applicable
Not Applicable
Not Applicable
Not Applicable
Not Applicable
Not Applicable
Insoluble
Red, white and green granules with cherry odor
None

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%)

- LEL
- UEL

Flash Point (Method Used)

Extinguishing Media
Special Fire Fighting Procedures
Usual Fire & Explosion Hazards

Not Applicable
Not Applicable
Not Applicable
Use any appropriate for surrounding fire.
None
None

SECTION V - HEALTH HAZARD DATA

Route of Entry
Carcinogenic Assessment
Threshold Limit Value
Effects of Overexposure
Emergency & First Aid Procedures

Not applicable
Not listed
Not Applicable
None known. Possible irritant upon prolonged exposure.
Not applicable

SECTION VI - REACTIVITY DATA

Stability
Incompatibility (Materials to Avoid)
Hazardous Decomposition Products
Hazardous Polymerization

Stable
Strong oxidizers
None known
Will not occur

SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled
Waste Disposal Method

Sweep up and dispose of as solid waste
Sanitary landfill. Dispose of in accordance with all local, state and federal regulations. Dispose of empty container in an authorized local, state or federal landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection
Ventilation
Protective Gloves
Eye Protection
Other Protective Equipment

None required
Normal ventilation is adequate
None required
None required
None required

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing
Other Precautions

Store in original container. Do not reuse container.
KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.

Notice: While K & K Chemical Co. believes the information contained herein is accurate and valid, Kendall and Son makes no warranty or representation as to its validity, accuracy, or currency. Kendall and Son shall not be liable or otherwise responsible in any way for use of either this information, or the material to which it applies. Disposal of hazardous material may be subject to federal, state, or local laws or regulations.

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION

NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special -
 Manufactured For: K & K CHEMICAL CO.
 Address: 1303 INDUSTRIAL DRIVE (BOX 737)
 Address: ROYSE CITY, TX 75189
 Phone: 1-800-327-0646
 EMERGENCY RESPONSE NUMBER: 1-800-327-0646
 NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA

HMS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-B
 DOT Hazard Classification: Corrosive Material, 8
 Identity (trade name as used on label):
 K & K QUATEX II (K-517)
 MSDS Number: R 272 Revision - 1
 Date Prepared: 15 March 1996 Prepared By: RC/IB
 Information Calls: (770)422-2071

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C ₁₂ -C ₁₈)	68424-85-1	No	N/E	N/E	d
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	68424-95-3	No	N/E	N/E	d
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	5538-94-3	No	N/E	N/E	d
DECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	No	N/E	N/E	d
ETHYL ALCOHOL	64-17-5	No	1000	1000	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 212°F
 Vapor Pressure: PSIG @ 70°F (Aerosols): N/A
 Vapor Density (Air = 1): N/E
 Solubility in Water: Miscible
 Appearance and Odor: Yellow liquid with Lemon fragrance

Specific Gravity (H₂O=1): 1.00
 Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/E
 Evaporation Rate (water = 1): 1
 Water Reactive: No

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST
 (aerosols) N/A
 FLASH POINT AND METHOD USED (non-aerosols): None, water based.
 EXTINGUISHER MEDIA: Water, dry chemical, foam, carbon dioxide.
 Unusual Fire & Explosion Hazards: Decomposition & oxidatious products in a fire can liberate noxious & toxic fumes.

Auto Ignition Temperature
 N/A
 SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH approved supplied atmosphere breathing apparatus.

Flammability Limits in Air by % in Volume:
 % LEL: N/A % UEL: N/A

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [] UNSTABLE
 Incompatibility (Mat. to avoid): Aluminum, metal, anionics & acids.
 Hazardous Decomposition Products: Oxides of carbon; ammonia, oxides of nitrogen.

HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR
 Conditions to Avoid: None known.

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [] INHALATION [X] INGESTION [] SKIN ABSORPTION [X] EYE [] NOT HAZARDOUS

ACUTE EFFECTS
 Inhalation: Should not cause respiratory irritation.
 Eye Contact: May cause severe eye irritation.
 Ingestion: Harmful if swallowed.
 Skin Contact: May cause irritation.

CHRONIC EFFECTS: None known.
 Medical Conditions Generally Aggravated by Exposure: Pre-existing irritation of skin and mucous membranes.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. If irritation persists, get medical attention.
 Skin Contact: Wash contaminated areas with soap and water. If irritation persists, get medical attention.
 Inhalation: Remove to fresh air.
 Ingestion: DO NOT INDUCE VOMITING. Drink large quantity of milk, egg whites, gelatin solution or water. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): None required.
 Protective Gloves: Rubber or neoprene.
 Ventilation Requirements: Normal room ventilation is adequate.
 Other Protective Clothing & Equipment: None required.
 Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling.

Eye Protection: Safety glasses or goggles.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken if Material is Spilled Or Released: Contain spill. Keep out of sewers & open bodies of water. Soak up spill on inert absorbent material. Place in leak-proof container.
 Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.
 Precautions To Be Taken in Handling & Storage: Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme heat and cold.
 Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
 ** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only