IMPORTANT **MATERIAL SAFETY DATA SHEET** 140CO HODESTO, CA RESEATING THE SECRETARY TH

O-MINIMAL	SWODEN STATES		
 Reactivity	Flammability	Health Hazard	ATINO *

े Product No. KM<u>686 M</u> Product Name PHENOLPHTHALEIN READ CAREFULLY BEFORE USING CHEMICAL OSHA requires that this form be kept on file. SOLUTION

Chemical Synonyms C.A.S. No. Formula None Mixture 77-09-8 P.E.L TLV Units

* chemical subject to the reporting requirements of SARA Title III.

Ethyl Alcohol* SDA-3A 190 proof C.A.S. #64-17-5

<u>^</u>%

none

200ppm

200ppm

none

Phenolphthalein

Principal Hazardous Component(s)

Malting Point (*F)	NA	Specific Gravity (H ₂ 0=1) 0.791	0.791
Boiling Point (*F)	148°F	Percent Volatile by Volume (%)	ca 100
Vapor Pressure (mm Hg) 97 @ 68°F	97 @ 68°F	Evaporation Rate #1)	***************************************
Vapor Density (Air=1)	1.1		

Extinguisher Media Flash Point (Method Used) Carbon dioxide, dry chemical, alcohol foam, and water mist or fog. Flammable Limits in Air % by Volume となること はないと Lower Upper 36.5

Appearance & Odor Solubility in Water

100%

Clear colorless liquid with a characteristic pungent alcohol odor.

Special Firefighting Procedures

apparatus, Use a blanket effect to smother fire. Wear self contained breathing

Unusual Fire and Explosion Hazards

oxidizing agents. exposed to heat, sparks, or flames and can react vigorously with Moderate explosion hazard and dangerous fire hazard when

DEC 21 1995

D.O.T. SB14330 Nasco Intermediate Denatured alcohol solution, 3, NA1987, PGII S

Kit GR 4-9

None

Effects of Overexposure

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Contains methanol, a poisonous, narcolic chemical that can allect the body through inhalation, ingestion, and perhaps prolonged or repeated skin contact. Absorption by inhalation is rapid and excretion is much skt than for Ethyl alcohol, resulting in delayed effects or compounding of effects by repeated exposure. It is important to be aware that after ingestion or inhalation, initial symptoms may be only that or mild intoxication but may become severe after 12 to 18 hours. Toxic effects are exerted upon the central nervous systems, especially the optic nerve. Ingestion can produce bindness: 100-250 ml can be fatal. Symptoms of over exposure include dizziness, visual impairment, nausea, respiratory failure, muscular incoordination and marcosis, prolonged or repeated skin contact may cause dermalitis, erthema, scaling, and possibly systemically and possibly systemically and possibly systemically and possibly systemically and possibly systemically.

Emergency and First Aid Procedures

WARNING: FLAMMABLE! Keep away from heal-sparks and bytilion sources, Harmful if swalbowed, avoid breathing vapors Use with adequate vertiliation. Avoid contact with eyes, skin and clothes. Wash thoroughly after handling Keep contacher closed. Contains methyl it Carnot be made noxpoisonous. FREST, AB: CALLA, A PHYSICAN,SKIN; Remove contamhated chothing. Wash skin with soap and was EYES; Wash showed to water for at least 15 minutes, litting tower and upper eyeld collectionary. Get motical stellar information of the stellar of t

Conditions to Avoid
Stable 🗘 Unstable 🗆 Heat
Strong oxidizer agents such as nitrates, perchlorates or sulfuric acid,
Toxic gasses and vapors (carbon monoxide, formaldehyde) may be released in a ethanol fire.
Hazardous Polymerization Conditions to Avoid May
THE PARTY OF THE P

Sieps to be laken in Case Material is Released of Spilled

1. Hemove pli fyrition sources. 2. Provide edequate venitation. 3.5mal quantities may be absorbed on paper towers. Evaporate in as place (such as a hume hood) bum paper in an approved incheration or open pit away from buildings and people. Large quantities can be othercied and atomized in a suitable combustion chamber. spills in sensitive areas may be dishled and flushed to ground with water and it. collected and alomized in a suitable combustion Do not flush to sewer or other confined space.

Waste Disposal Method

Distribute, treatment, or disposal may be subject to Federal. State or Local text. These disposal guidations are intended for the disposal of calabo-size guar Absorb in vermiculate, day sand, each or a similar material and dispose in a socured sanitary landfill. Alpinida in a suitable combustion chamber; dispose of via a ficensed waste solvent disposed company, or rectain via fill ration procedures.

(기념어 (이) () () () (의 (SD (HALTO)) Precautions to be Taken in Handling & Storing	Other Protective Equipment	Protective Gloves		Ventilation	引到[[]]]]]]] (
SPEGIAL PREATING (1975)	Impervious aprons, boots and face shields where splashing can occur.	Rubber Gloves	Mechanical (General) Control matter spect and explains plut	Local Exhaust To med TL\	SPECIAL DROJECTION BUILDER TO Self-contained breathing apparallor or self-contained breathing ap
	d face shields where	Eye Protection	at ord extraorphis Other	To meet TLV requirements Special	O TESPITATOR OF Self-c
Control of the contro	splashing can occur.	Safety Glasses	A		ontained breathing appa

Keep container tightly closed when not in use.

Ground and electrically interconned contenens for transfer. Use sparkproof local, No smolding in exest of use or storage. Avoid professor of vapor or contest with sidn. Avoid contest with eyes, Contest tenses should not be worn which handing behavior. Eye with statistics and safely show foods to avoid which are should be available in sweet of use. On not inguest Solve in a well revaled , felapood as as, areay from sources of heat, open flame, and fynition.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals. Provide preplacement medical exams for industrially exposed workers, with emphasis on neurological and visual functions, liver and lidney systems, provide suitable training to those working with Methand. Monitor the work place, keep records.

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tent of hundring millions manages of the	Approved by Steven C. Quandi	
my need of engineepens should leave this when	Effective Date	
uran applies is selected and	11/14/94	
The advantable fractional between the destroid and animated of any tool of registerance about this advantable with a page travel or eight animated programment and the contract of the contraction of the c	household use. Keep out of reach	

MATERIAL SAFETY DATA SHEET K PORTARI

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READ CAREFULLY BEFORE USING CHEMICAL OSHA requires that this form be kept on file.

Product No. KM 1001 M

Product Name CALCIUM HYDROXIDE,

POWDER

C.A.S. No. Formula Synonyms Chemical ECTION: NAME THE LOCATION Hydrated Lime 1305-62-0

Calcium Hydroxide* C.A.S. #1305-62-0 SECTIONS Principal Hazardous Component(s) THE PROPERTY OF THE PARTY OF TH

None Established 15 mg/m³ LV Units OSHA

* chemical subject to the reporting requirements of SARA Title III.

Vapor Density (Air=1) Vapor Pressure (mm Hg) Boiling Point ("F) 既elting Point (下) Ş (-1) above 580°C >580°C dissociates Percent Volatile by Volume (%) Evaporation Rate (Specific Gravity (H₂O=1) ×

SECTION W Appearance & Odor 0.185 gr/cc at 0°C Light gray powder, slight Ammonia odor. ENDER OF A DESCRIPTION OF THE PERSON OF THE

Solubility in Water

Extinguisher Media Method Used Flash Point Ş As necessary to control surrounding area fire % by Volume LOWer K

Special Firefighting Procedures

calcium oxide (CaO). Firefighters should wear full protective clothing, eye protection, and self-contained breathing apparatus. Material is caustic. When heated above 580°C, will dissociate producing water vapor and

Unusual Fire and Explosion Hazards

None known.

D.O.T.

Not Regulated

DEC 071995

CHEMTREC 800-424-9300 Health Hazard ATINO SE Reactivity Flammability 10

Effects of Overexposure -Aniek wurn broussaus

15 mg/m³ Nuisance Dust (OSHA)

alkaline solution on contact with skin or mucous membranes, causes skin and eye burr Caustic irritant to eyes, skin, respiratory tract. Do not ingest! Acute: Produces high throat irritation. Chronic: Dermatitis. Inhalation of dust will aggravate upper respiration

Emergency and First Aid Procedures
Inhalation: Remove to fresh air, get prompt medical attention. Eyes: Immediately flush eyes with nunning water for 15 minutes, including under eyelids. Get prompt medical attention. Skin: Flush with water or vinegar to neutralize alkali effects. Wash with soap and water. Ingestion: Dilute by giving two glasses of water or milk to drink followed by fruit juices or diluted vinegar. Gargle with vinegar to preve throat initiation. Consult physician.

Hazardous Polymerization SECTION VI Decomposition Products incompatibility (Materials to Avoid) lazardous Stability Unstable (1) Incompatible with acidic materials, forms saits with nitroparaffins in presof water and are explosive when dried. Will neutralize acid solutions. Conditions to Avoid Conditions to Avoid Calcium Oxide

SECTION VII Sweep up excess of hydrate. Place in dry metal containers. Avoid dusting. Flush are Steps to be Taken in Case Material is Released or Spilled with large quantities of water

May Will Not Cx

N/A

Waste Disposal Method

Upper

None Decharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size qui

Protective Gloves Ventilation A SECTION IX Other Protective Respiration Protection (Specify Type) SECTION VIII Mechanical (Ganeral) SPECIAL PROJECT (ON INTEGRALATION NIOSH/MSHA approved nuisance dust respirator. Local Exhaust Long sleeved shirts, buttoned collar, apron to prevent splashes of slurry, wash station. Latex Rubber SPECIAL PRECAUTIONS Eye Protection Other Special Salety Goggles

Precautions to be Taken in Handling & Storing

dispersions of this material. Avoid protonged contact with eyes or skin, inhalation of dust. Use caution in handling alikaline water

Other Processing the second way contact leaves when you've with changes with water. See MSDS for calcium carbi May have residual calcium carbide present, subject to react with water. See MSDS for calcium carbi

Approved by Steven C. Quandt **Effective Date** 11/14/94