MID CLEAN

Safety Data Sheet

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Clear liquid.

Substance name : Phosphate Ester, 2-Butotoxyethanol, Tetra Potassium Pyro Phosphate, Alkyl Dimethyl Benzyl

Ammonium Chloride, Hydrogen Peroxide, Water

CAS No : 1341-49-7 , 7664-38-2, 7664-39-3, 7732-18-5, 68391-01-5 CBI(Trade secret)

Product code : MID CLEAN
Formula : Proprietary mixture.

Classification of the substance or mixture: Corrosive to metals, Category 1 Acute toxicity, Category 2, Oral Acute toxicity, Category 2,

Inhalation Acute toxicity, Category 1, Dermal Skin corrosion, Category 1A Serious eye damage,

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ategory 1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Grease and grime remover for sterilizers

# 1.3. Details of the supplier of the safety data sheet

Manufactured by Sunland Chemical & Research Inc. 5447 San Fernando Road W
Los Angeles, CA 90039 - USA
T (818) 244-9600 F (818) 246-0478
customerservice@sunlandchemical.com
http://www.sunlandchemical.com

1.4. Emergency telephone number

Emergency number : PERS: 1-800-633-8253

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

**GHS-US classification** 

Corr. 1 H290 Skin Corr. 1A H314 Eye Dam. 1 H318

#### 2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US)

Signal word (GHS-US) : WARNING!

Hazard statements (GHS-US) : H301 – Toxic if swallowed or inhaled.

H290 - May be corrosive to metals

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Precautionary statements (GHS-US)

: H318 - Causes serious eye damage.

P260 - Do not breathe mist, spray, vapors

P264 - Wash exposed skin thoroughly after handling

P280 - Wear eye protection, face protection, protective clothing, and protective gloves P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for extinction

P390 - Absorb spillage to prevent material damage

P405 - Store locked up

P406 - Store in corrosive resistant container

P501 - Dispose of contents/container to comply with local, state and federal

regulations

#### Other hazards 2.3.

Other hazards not contributing to the

: H402: Harmful to aquatic life.

classification

**Unknown acute toxicity (GHS US)** 2.4.

No data available

# **SECTION 3: Composition/information on ingredients**

### Substances

Substance type : Multi-constituent

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 1341-49-7	7-10%	See Section 2.2
2-Butotoxyethanol	111-76-2	2-5%	
Phosphate Ester	68439-45-2	2-8%	
Tetra Potassium Pyro Phosphate		4-10%	
Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	<1%	
Hydrogen Peroxide	7722-84-1	0 – 2%	
Trade secret ( Not believed to impact the hazard profile)	СВІ	64 - 84%	

Full text of H-phrases: see section 16

#### 3.2. Mixture

Not applicable

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# **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen.

Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact

: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Cover eyes aseptically. Take victim to an ophthalmologist.

First-aid measures after ingestion

: Rinse mouth with water, Immediately after ingestion: Give lots of water to drink, Give milk to drink. Do not induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service. Call Poison Information Center. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital.

#### Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: Irritation of the respiratory tract. Dry/sore throat. Corrosion of the upper respiratory tract. Coughing. FOLLOWING SYMPTOMS MAY APPEAR LATER: Respiratory difficulties. Possible inflammation of the respiratory tract. Blue/grey discoloration of the skin.

Symptoms/injuries after skin contact

: White skin. May stain the skin. Caustic burns/corrosion of the skin. Slow-healing wounds.

Symptoms/injuries after eye contact

: Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion

: Nausea. Vomiting. Abdominal pain. Burns to the gastric/intestinal mucosa. Possible esophageal perforation. Shock.

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Affection/discoloration of the teeth. Risk of pneumonia.

# Indication of any immediate medical attention and special treatment needed

Obtain medical assistance

Chronic symptoms

# **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed. Unsuitable extinguishing media : No unsuitable extinguishing media known.

# Special hazards arising from the substance or mixture

Fire hazard

: DIRECT FIRE HAZARD. Noncombustible. INDIRECT FIRE HAZARD. Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard

: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

Reactivity

Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapors. Violent to explosive reaction with many compounds e.g.: with (strong) reducers, with (some) bases, with organic material and with combustible materials with risk of spontaneous ignition. Reacts violently with (some) metals. Decomposes slowly on exposure to light: release of toxic and corrosive gases/vapors (nitrous vapors). Violent to explosive reaction with (some) metal powders: release of highly flammable gases/vapors (hydrogen).

#### 5.3. Advice for firefighters

Firefighting instructions

: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment

: Gas-tight suit. Corrosion-proof suit.

**Emergency procedures** 

: Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Corrosion-proof appliances. Keep containers closed. Wash

contaminated clothes.

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#### 6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection. Avoid breathing mist, Vapors, spray.

**Emergency procedures** 

: Stop leak if safe to do so. Ventilate area.

#### 6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

#### 6.3. Methods and material for containment and cleaning up

For containment

: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Dilute toxic gases/vapors with water spray. Take account of toxic/corrosive precipitation water. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapor with water curtain.

Methods for cleaning up

: Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Do not take up in combustible material such as: saw dust. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Spill must not return in its original container. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosion-proof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Never dilute by pouring water to the acid. Always add the acid to the water. Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities

Heat and ignition sources

: KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage

: KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) bases. cellulosic materials. organic materials. metal powders. water/moisture.

Storage area

: Store in a cool area. Keep out of direct sunlight. Store in a dry area. Store in a dark area. Ventilation at floor level. Fireproof storeroom. Keep locked up. Provide for a tub to collect spills. Aboveground. Keep only in the original container. Store only in a limited quantity. Meet the legal requirements.

Special rules on packaging

: SPECIAL REQUIREMENTS: hermetical. dry. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.

Packaging materials

: SUITABLE MATERIAL: stainless steel. aluminum. iron. glass. MATERIAL TO AVOID: synthetic material

# 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters RPI MID-CLEAN (Estimated from constituent sources) USA ACGIH ACGIH TWA (ppm) 2 ppm USA ACGIH ACGIH STEL (ppm) 4 ppm USA OSHA OSHA PEL (TWA) (mg/m3) 3 mg/m³ USA OSHA OSHA PEL (TWA) (ppm) 6 ppm

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#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment : Protective goggles. Protective clothing. Face shield. Gloves. Combined gas/dust mask with filter

type NO/P2.



: GIVE LESS RESISTANCE: polyethylene/ethylene vinyl alcohol. GIVE POOR RESISTANCE:

Materials for protective clothing chloroprene rubber. nitrile rubber. polyethylene. PVA. natural fibers.

Hand protection : Gloves.

Eye protection : Protective goggles.

Skin and body protection : Head/neck protection. Corrosion-proof clothing.

Respiratory protection : Gas mask with filter type B. Gas mask with filter type E. Gas mask with filter type NO. High

vapor/gas concentration: self-contained respirator.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid.

Molecular mass : Not available

Color : Colorless-water white. On exposure to light may turn yellow.

Odor : Irritating/pungent odor.

Odor threshold : Not available.

pH :

Unknown

pH solution : Unknown

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : Unknown

Flash point : Not applicable

Self ignition temperature

Not applicable

Decomposition temperature

No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density

1.040 - 1.05

Relative density of saturated gas/air mixture

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No data available

Density : 1040 – 1050 kg/m<sup>3</sup>

Solubility : Water: Complete

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties No data available

Oxidising properties : May intensify fire.

Explosive limits : No data available

#### 9.2. Other information

Saturation concentration : Unknown

VOC content : Not applicable
Other properties : Unknown.

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapors.

#### 10.2. Chemical stability

Unstable on exposure to light.

## 10.3. Possibility of hazardous reactions

May react violently with reducing agents.

# 10.4. Conditions to avoid

Direct sunlight. Incompatible materials.

# 10.5. Incompatible materials

Strong bases. Strong reducing agents. Organic compounds. Cyanides. Combustible materials. Aldehydes. Ammonia. Metals. Alcohols.

# 10.6. Hazardous decomposition products

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization: : Toxic on skin.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Not classified exposure)

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Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Irritation of the respiratory tract. Dry/sore throat. Corrosion of the upper respiratory tract.

Coughing. FOLLOWING SYMPTOMS MAY APPEAR LATER: Respiratory difficulties. Possible inflammation of the respiratory tract. Risk of lung edema. Blue/grey/white discoloration of the

Symptoms/injuries after skin contact : White/Yellow skin. May stain the skin. Caustic burns/corrosion of the skin. Slow-healing wounds.

Symptoms/injuries after eye contact : Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion : Nausea. Vomiting. Abdominal pain. Burns to the gastric/intestinal mucosa. Possible

esophageal perforation. Shock.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Affection/discoloration of the teeth.

# **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

Ecology - general : Classification concerning the environment: not applicable.

Ecology - water : Water pollutant (surface water). Harmful to fishes. Harmful to invertebrates (Daphnia). May

cause eutrophication. pH shift.

Alkaline Solution	Estimated from constituent components
LC50 fishes 1	135 mg/l (96 h; Lepomis macrochirus;)
EC50 Daphnia 1	180 mg/l (48 h; Daphnia magna; PURE SUBSTANCE)
LC50 fish 2	72 ppm (Gambusia affinis; PURE SUBSTANCE)
Threshold limit algae 1	> 19 mg/l (Algae; PURE SUBSTANCE)

#### 12.2. Persistence and degradability

Alkaline Solution	
Persistence and degradability	Biodegradability: not applicable. No (test) data on mobility of the components of the mixture available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oyxgen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

#### 12.3. **Bioaccumulative potential**

Alkaline Solution	
BCF fish 1	Not known
Log Pow	Not known
Bioaccumulative potential	Not known

# Mobility in soil

No additional information available

# Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### Waste treatment methods 13.1.

Waste disposal recommendations

: Remove waste in accordance with local and/or national regulations. Recycle/reuse. Remove for physico-chemical/biological treatment. Remove to an authorized dump (Class I). Treat using the best available techniques before discharge into drains or the aquatic environment.

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Additional information

# **SECTION 14: Transport information**

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No.(DOT) : NOT DOT REGULATED

DOT NA no.

14.2. UN proper shipping name

DOT Proper Shipping Name : NOT DOT REGULATED

Department of Transportation (DOT) Hazard

Hazard labels (DOT)

Packing group (DOT)

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DOT Special Provisions (49 CFR 172.102)

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

# 14.3. Additional information

Other information : No supplementary information available.

State during transport (ADR-RID) : As liquid.

## **Overland transport**

Packing group (ADR)

:

Class (ADR)
Hazard identification number (Kemler No.)
Classification code (ADR)

Classification code (ADR)

Danger labels (ADR)

Orange plates : Transport by sea :

**DOT Vessel Stowage Location** 

DOT Vessel Stowage Other :

EmS-No. (1) : EmS-No. (2) :

Air transport

DOT Quantity Limitations Passenger aircraft/rail :

:

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

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RQ (Reportable quantity, section 304 of EPA's List of Lists) :	
SARA Section 311/312 Hazard Classes	

# 15.2. International regulations

# CANADA

Listed on the Canadian DSL (Domestic Substance	es List) inventory.
WHMIS Classification	

# **EU-Regulations**

No additional information available

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corr. 2A

Full text of H-phrases: see section 16

# 15.2.2. National regulations

Ammonium Biflouride, Phosphoric acid, Proprietary ingredients	
Listed on the Canadian Ingredient Disclosure List	

# 15.3. US State regulations

Proprietary mixture	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List

# **SECTION 16: Other information**

Full text of H-phrases: see section 16:

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Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

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# **HMIS III Rating**

Health : 2 Moderate – Can cause serious or permanent injury

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

Personal Protection : H

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Sunland Chemical assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

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