MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Product Name Phase III Acid Test Kit (S) (4320S)

(To be used in conjunction with Phase III Refrigeration Oil Test Reagent (L)(4320L)

CAS#

Product use

Manufacturer

Mixture Acid test kit Nu-Calgon

2008 Altom Court

St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Emergency overview

Contact may cause eye and skin irritation.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

May cause irritation.

Skin

Prolonged exposure may cause skin irritation.

Inhalation

May cause respiratory tract irritation.

Ingestion

May cause stomach distress, nausea or vomiting.

Target organs

Eyes. Skin.

Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects

This product has not been tested.

3. Composition / Information on Ingredients

Composition comments

This product is considered non hazardous by WHMIS/OSHA criteria.

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Notes to physician

Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media

Treat for surrounding material.

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Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

Hazardous combustion products

firefighters

Firefighters should wear full protective clothing including self contained breathing

May include and are not limited to: Oxides of sodium. Oxides of phosphorus.

Explosion data

Sensitivity to mechanical impact Not available Sensitivity to static discharge Not available

6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not Personal precautions

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Do not discharge into lakes, streams, ponds or public waters. **Environmental precautions**

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements Methods for containment

or confined areas.

Before attempting clean up, refer to hazard data given above. Small spills may be Methods for cleaning up

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Use good industrial hygiene practices in handling this material. Handling

When using do not eat or drink.

Avoid contact with skin and clothing. Avoid contact with eyes.

Avoid breathing vapors or mists of this product. Keep container tightly closed.

Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Engineering controls

Personal protective equipment

General ventilation normally adequate.

Eye / face protection

Storage

Wear safety glasses with side shields.

Follow standard industrial hygiene practices. Rubber gloves. Confirm with a Hand protection

reputable supplier first.

Skin and body protection

Respiratory protection

As required by employer code.

General hygiene considerations

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Clear. **Appearance** Color Colorless Liquid Form Odor Characteristic **Odor threshold** Not available

Liquid Physical state

рΗ 10.9 (Concentrate) **Melting point** Not available Not available Freezing point Not available **Boiling point** Pour point Not available Not available **Evaporation rate** Flash point Not available

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Auto-ignition temperature

Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

Percent volatile

Not available

Not available

Not available

by volume

Not available Vapor pressure Vapor density Not available 0.9048 Specific gravity Octanol/water coefficient Not available Complete Solubility (H2O) VOC (Weight %) Not available Not available Viscosity 7.54 lbs/gallon **Bulk density**

10. Stability and Reactivity

Reactivity This product may react with strong acids.

Hazardous polymerization does not occur. Possibility of hazardous reactions

Stable under recommended storage conditions. Chemical stability

Not available

Conditions to avoid None known. Caustics. Acids. Incompatible materials

May include and are not limited to: Oxides of sodium. Oxides of phosphorus. Hazardous decomposition products

11. Toxicological Information

Effects of acute exposure

May cause irritation. Eye

Skin Prolonged exposure may cause skin irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Non-hazardous by WHMIS/OSHA criteria. Sensitization Chronic effects Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Carcinogenicity Mutagenicity Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Reproductive effects Non-hazardous by WHMIS/OSHA criteria. Teratogenicity

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

Not available Persistence / degradability Not available Bioaccumulation / accumulation

Mobility in environmental media Not available Not available **Environmental effects** Not available Aquatic toxicity Partition coefficient Not available

Not available Chemical fate information Not available Other adverse effects

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations.

Waste from residues / unused Not available

products

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14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Canadian federal regulations

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

WHMIS status

Not Controlled

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

US Federal regulations

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

Potassium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Not available

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory name

Country(s) or region

Inventory name

On inventory (yes/no)*

Canada

Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Yes No

Canada

Yes

United States & Puerto Rico

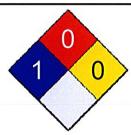
Toxic Substances Control Act (TSCA) Inventory

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Nu-Calgon Technical Service (314) 469-7000

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

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