

Issue Date August 2008

Revision Date September 2013

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Powerhouse™ Steam Extraction Liquid

Other Means of Identification

SDS # 55668/SDS/I01

Product Code

55668

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Steam Extraction Liquid.

Details of the Supplier of the Safety Data Sheet

Supplier Address Certol International, LLC.
6120 East 58th Avenue
Commerce City, Colorado 80022
www.Certol.com

Emergency Telephone Number

Company Phone Number(s)

Phone: 303-799-9401
Toll-Free: 1-800-843-3343
Fax: 303-799-9408

24 Hour Emergency Telephone

INFOTRAC: 1-800-535-5053 (North America)
INFOTRAC: 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion / Irritation	Category 2
Serious Eye Damage / Eye Irritation	Category 1

Signal Word

Danger.

Hazard Statements

Causes skin irritation.
Causes serious eye damage.

Appearance

Clear Green Liquid.

Physical State

Liquid.

2. HAZARDS IDENTIFICATION (continued)

Odor Faint Alcohol.



Precautionary Statements-Prevention

Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements-Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.

IF SWALLOWED: Immediately call a Poison Control Center or doctor/physician.
Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower. Wash contaminated clothing before reuse.

Precautionary Statements - Storage

Keep container tightly closed and store in a dry, cool and well-ventilated place away from incompatible materials.

Keep out of the reach of children and pets.

Precautionary Statements - Disposal

Dispose according to all local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Isopropyl Alcohol	67-63-0	*
Sodium Tripolyphosphate	7758-29-4	*
Sodium Metasilicate Pentahydrate	10213-79-3	*

*The exact percentage is a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call physician immediately.
Ingestion	Rinse mouth. Drink large amounts of water. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Call a physician or Poison Control Center immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Call a physician if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Causes skin irritation. Prolonged skin contact may cause burns on sensitive skin. Ingestion may cause nausea, vomiting and diarrhea. Inhalation may cause mild respiratory irritation, coughing, nausea and headache. Causes eye irritation. Prolonged eye contact may cause irreversible damage.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water, CO₂, dry chemical or foam for extinction.

Unsuitable Extinguishing Media

Not Determined.

Specific Hazards Arising from the Chemical

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment as required. The wet contaminated surface may be slippery.

For Emergency Responders

Restrict access to spill area. Ventilate the area.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.
See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Absorb with an inert material. Sweep up and shovel into a suitable container.
Flush remainder with plenty of water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Do not handle until all safety precautions have been read and understood.
Handle in accordance with good industrial hygiene and safety practices.
Use personal protection recommended in Section 8.
Wash face, hands and any exposed skin thoroughly after handling.
Avoid breathing dust/fumes/gas/mist/vapors/spray.

Keep out of the reach of children and pets.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep container tightly closed and store in a dry, cool and well-ventilated place away from incompatible materials.

Keep out of the reach of children and pets.

Incompatible Materials

Strong acids and oxidizers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Metasilicate Pentahydrate 10213-79-3	2 mg/m ³	2 mg/m ³	N/A
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ TWA: 400 ppm (Vacated) TWA: 980 mg/m ³ (Vacated) STEL: 500 ppm (Vacated) STEL: 1225 mg/m ³ (Vacated)	IDLH: 2000 ppm TWA: 400 ppm TWA: 980mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³

Appropriate Engineering Controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits.
Eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection

Wear goggles or a face protection shield.

Skin and Body Protection

Chemical resistant, impermeable gloves.
Wear suitable protective clothing.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas.
A mask or respirator may be used if there is a potential to exceed the exposure limit.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid.
Appearance	Clear Green Liquid.
Color	Green.
Odor	Faint Alcohol.

<u>Property</u>	<u>Values</u>	<u>Remarks * Method</u>
pH	13.0	68°F (20°C)
Melting Point / Freezing Point	< 32°F / < 0°C	
Boiling Point / Boiling Range	> 205°F / > 96°C	(Approximate)
Flash Point	Not Flammable.	
Evaporation Rate	< 1	(Butyl acetate = 1) (Approximate)
Flammability (Solid/Gas)	N/A-Liquid.	
Flammability Limits In Air	Not Determined.	
Vapor Pressure	Not Determined.	
Vapor Density	> 1	(Air = 1) (Approximate)
Specific Gravity	1.03	68°F (20°C) (Water = 1)
Water Solubility	Completely Soluble.	
Partition Coefficient	Not Determined.	
Autoignition Temperature	Not Determined.	
Decomposition Temperature	Not Determined.	
Kinematic Viscosity	Not Determined.	
Dynamic Viscosity	Not Determined.	
Explosive Properties	Not Determined.	
Oxidizing Properties	Not Determined.	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization will not occur.

Conditions to Avoid

None under normal processing.

Incompatible Materials

Strong acids and oxidizers.

Hazardous Decomposition Products

None under normal processing.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation	Avoid breathing vapors and mists.
Eye Contact	Causes serious eye damage with prolonged contact.
Skin Contact	May cause skin irritation.
Ingestion	Do not taste or swallow.

Component Information

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Isopropyl Alcohol 67-63-0	4396 mg/kg (Rat)	12800 mg/kg (Rat)	72.6 mg/L (Rat) 4 hr.
Sodium Metasilicate Pentahydrate 10213-79-3	800 mg/kg (Rat)	N/A	N/A
Sodium Tripolyphosphate 7758-29-4	3100 mg/kg (Rat)	7940 mg/kg (Rabbit)	N/A

Information on Physical, Chemical and Toxicological Effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0	A4	Group 3	N/A	N/A

ACGIH (American Conference of Governmental Industrial Hygienists)

A4 - Not Classifiable as a Human Carcinogen.

IARC (International Agency for Research on Cancer)

Group 3 - Not Carcinogenic to Humans.

Numerical Measures of Toxicity

Not Determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic organisms.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	Known Toxin	Known Toxin	No Information	Known Toxin
Sodium Metasilicate Pentahydrate 10213-79-3	No Information	Known Toxin	No Information	Known Toxin
Sodium Tripolyphosphate 7758-29-4	No Information	Known Toxin	No Information	No Information

Persistence and Degradability

Not Determined.

Bioaccumulation

Not Determined.

Mobility

Chemical Name	Partition Coefficient
Isopropyl Alcohol 67-63-0	0.05

Other Adverse Effects

Not Determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Dispose according to all local, state and federal regulations.

Contaminated Packaging

Dispose according to all local, state and federal regulations.

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol 67-63-0	Toxic / Ignitable

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not Regulated.

IATA Not Regulated.

IMDG Not Regulated.

15. REGULATORY INFORMATION

International Inventories

Not Determined.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/
European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight %	SARA 313 - Threshold Values %
Isopropyl Alcohol	67-63-0	> 1.0%	1.0%

SARA 311/312 Hazard Categories

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 311/312.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

15. REGULATORY INFORMATION (continued)**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol 67-63-0	X	X	X
Sodium Tripolyphosphate 7758-29-4	N/A	X	X

16. OTHER INFORMATION**NFPA**

Health Hazards 1	Flammability 1	Instability 0	Special Hazards Not Determined.
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HMIS

Health Hazards Not Determined.	Flammability Not Determined.	Physical Hazards Not Determined.	Personal Protection Not Determined.
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Revision Note New format.

Disclaimer

The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

End of Safety Data Sheet