



Material Safety Data Sheet

PRO-A-GEL

HEALTH	*	2
FLAMMABILITY		4
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

1. Product and Company Identification

Material name	PRO-A-GEL
Patent Number	Not available
Revision date	March-26-2011
Version No.	5
CAS #	Mixture
Product use	Acid Gelling Agent
Manufacturer information	Clearwater™ International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US CHEMTREC 1-800-424-9300/703-527-3887
Emergency	CHEMTREC 1-800-424-9300/703-527-3887
Supplier information	Producers Service Corp. 109 South Graham St. Zanesville, OH 43701 US
Supplier emergency telephone number(s)	24hr customer Service 740-454-6253

2. Hazards Identification

Emergency overview	Will be easily ignited by heat, spark or flames. Irritating to eyes. Prolonged exposure may cause chronic effects.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Eyes	Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.
Skin	Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Do not get this material in contact with skin.
Inhalation	Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	May cause delayed lung damage. Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Components of the product may be absorbed into the body by ingestion.
Target organs	Eyes. Lungs. Respiratory system. Skin.
Chronic effects	Shortness of breath. Conjunctiva. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis.
Signs and symptoms	Discomfort in the chest. Shortness of breath. Corneal damage. Cough. Conjunctivitis. Defatting of the skin. Rash. Irritation.
Potential environmental effects	May cause long-term adverse effects in the environment.



3. Composition / Information on Ingredients

Components	CAS #	Percent
Isopropyl alcohol	67-63-0	40 - 70

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops or persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

Notes to physician Symptoms may be delayed.

General advice Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Flammable by OSHA criteria. Containers may explode when heated. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media Water. Alcohol foam. Dry chemical. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Protective equipment and precautions for firefighters In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.



Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Do not handle or store near an open flame, heat or other sources of ignition. Use only with adequate ventilation. Wash thoroughly after handling. Avoid prolonged exposure.

Storage

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components

CAS

TWA

STEL

Ceiling

Isopropyl alcohol

67-63-0

200 ppm

400 ppm

Not established

OSHA

Components

CAS

TWA

STEL

Ceiling

Isopropyl alcohol

67-63-0

400 ppm

Not established

Not established

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection

Do not get this material in contact with eyes. Wear chemical goggles.

Skin protection

Do not get this material in contact with skin. Protective gloves. Impervious gloves.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations

Do not get this material in contact with eyes. Do not get this material in contact with skin. When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Liquid.

Color

clear, yellow or Orange

Odor

alcoholic

Odor threshold

Not available

Physical state

Liquid.

Form

Liquid.

pH

5 - 7



Melting point	-47.2 °F (-44.02 °C) estimated
Freezing point	Not available
Boiling point	109.4 °F (42.53 °C) estimated
Flash point	58 °F (14.4 °C)
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.86 - 0.89
Relative density	0.8749 g/cm ³ estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	383 °F (195 °C) estimated
Decomposition temperature	Not available
VOC	48.91 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Acute LD50: 8987 mg/kg estimated, Rat, Oral Acute LD50: 26312 mg/kg estimated, Rat, Dermal Acute LC50: 148 mg/l/4h estimated, Rat, Inhalation
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Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Isopropyl alcohol	67-63-0	Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat:4396 mg/kg; Dermal LD50 Rat:12800 mg/kg; Dermal LD50 Rabbit:12870 mg/kg
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Sensitization	Not expected to be hazardous by OSHA criteria.	
Local effects	Contact may irritate or burn eyes. Components of the product may be absorbed into the body through the skin.	
Chronic effects	Hazardous by OSHA criteria. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.	
Carcinogenicity	Not expected to be hazardous by OSHA criteria.	
ACGIH - Threshold Limit Values - Carcinogens		
Isopropyl alcohol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
Neurological effects	Not expected to be hazardous by OSHA criteria.	



Epidemiology

Hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity

LC50 19708 mg/L estimated, Fish, 96.00 Hours,
EC50 27189 mg/L estimated, Daphnia, 48.00 Hours,
IC50 2044 mg/L estimated, Algae, 72.00 Hours,
Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data

Isopropyl alcohol	67-63-0	96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L
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Ecotoxicity - Freshwater Fish Species Data

Isopropyl alcohol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
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Ecotoxicity - Microtox Data

Isopropyl alcohol	67-63-0	5 min EC50 Photobacterium phosphoreum: 35390 mg/L
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Ecotoxicity - Water Flea Data

Isopropyl alcohol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L
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Environmental effects

Ecotoxicity - Freshwater Algae Data

Isopropyl alcohol	67-63-0	96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L
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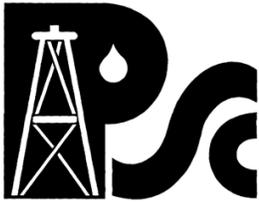
13. Disposal Considerations

Waste codes

D001: Waste Flammable material with a flash point <140 F

Disposal instructions

Dispose of this material and its container at hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose in accordance with all applicable regulations.



14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Isopropanol Solution
Hazard class 3
UN number UN1219
Packing group II

Additional information:

Special provisions IB2, T7, TP1, TP8, TP28
Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242
ERG number 129



Department of Transportation (DOT) Requirements

Bulk

Basic shipping requirements:

Proper shipping name Isopropanol Solution
Hazard class 3
UN number UN1219
Packing group II

Additional information:

Special provisions IB2, T7, TP1, TP8, TP28
Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242
ERG number 129



Canadian Transportation of Dangerous Goods (TDG) Requirements

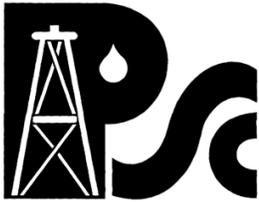
Basic shipping requirements:

Proper shipping name Isopropanol Solution
Hazard class 3
UN number UN1219
Packing group II

Additional information:

Special provisions 16
ERG number 129





IMDG

Basic shipping requirements:

Proper shipping name Isopropanol Solution
Hazard class 3
Subsidiary hazard class •
UN number 1219
Packing group II



IATA

Basic shipping requirements:

Proper shipping name Isopropanol Solution
Hazard class 3
UN number 1219
Packing group II



15. Regulatory Information

Labelling

Contains Isopropyl alcohol

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

FEMA (Flavor and Extract Manufacturers Association) - FEMA Numbers

Isopropyl alcohol 67-63-0 2929

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Isopropyl alcohol 67-63-0 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

U.S. - FDA - Color Additives Conditionally Approved for Use in Foods

Isopropyl alcohol 67-63-0 21 CFR 73.1

U.S. - FDA - Direct Food Additives

Isopropyl alcohol 67-63-0 21 CFR 172.515, 21 CFR 173.240, 21 CFR 173.340

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None



Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

International regulations

Canada - WHMIS - Ingredient Disclosure List

Isopropyl alcohol 67-63-0 1 %

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

Isopropyl alcohol 67-63-0 Present

U.S. - Minnesota - Hazardous Substance List

Isopropyl alcohol 67-63-0 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Isopropyl alcohol 67-63-0 sn 1076; sn 2381 (strong-acid process manufacture)

U.S. - Pennsylvania - RTK (Right to Know) List

Isopropyl alcohol 67-63-0 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Isopropyl alcohol 67-63-0 Toxic; Flammable

U.S. - Texas - Effects Screening Levels - Long Term

Isopropyl alcohol 67-63-0 320 ppb ESL (odor); 785 µg/m3 ESL (odor)

U.S. - Texas - Effects Screening Levels - Short Term

Isopropyl alcohol 67-63-0 3200 ppb ESL (odor); 7850 µg/m3 ESL (odor)



16. Other Information

HMIS® ratings

Health: 2*
Flammability: 4
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 4
Instability: 0

Prepared by

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Disclaimer

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Issue date

March-26-2011

MSDS sections updated

Product and Company Identification: Alternate Trade Names
Physical & Chemical Properties: Color
Other Information: MSDS footer disclaimer