



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier D'Gel®
Version # 02
Issue date 08-21-2013
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CAS # Mixture
Part Number C61244 / 32 / 01 / 55 / 96
Manufacturer information LPS Laboratories, a division of Illinois Tool Works
4647 Hugh Howell Rd
Tucker, Georgia 30084 United States
www.lpslabs.com
1-800-241-8334/ 770-243-8800
Chemtrec 1-800-424-9300

2. Hazards Identification

Emergency overview DANGER

Combustible liquid. May be ignited by heat, sparks or flames.

May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction.

Potential health effects
Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes Do not get this material in contact with eyes.
Skin 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 Components of the product may be absorbed into the body by ingestion. Do not ingest.
Target organs Central nervous system. Eyes. Respiratory system. Skin.
Signs and symptoms Skin irritation. Sensitization. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Prolonged exposure may cause chronic effects.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
D-LIMONENE	5989-27-5	10 - 30
Non-hazardous components	CAS #	Percent
DIOCTYL SODIUM SULFOSUCCINATE	577-11-7	0.5 - 1.5
Other components below reportable levels		60 - 100

4. First Aid Measures

First aid procedures
Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation develops and persists.
Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists.
Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Notes to physician	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.
General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
 5. Fire Fighting Measures	
Flammable properties	Combustible by WHMIS criteria. Heat may cause the containers to explode.
Extinguishing media	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. 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. In the event of fire, cool tanks with water spray. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.
Explosion data	
Sensitivity to static discharge	None known.
Sensitivity to mechanical impact	None known.
 6. Accidental Release Measures	
Personal precautions	Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Extinguish all flames in the vicinity. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Scrub the area with detergent and water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Do not use in areas without adequate ventilation. Wear personal protective equipment. Wash thoroughly after handling.

Storage

Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep container dry. Keep in an area equipped with sprinklers.

8. Exposure Controls / Personal Protection

Biological limit values

No biological exposure limits noted for the ingredient(s).

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection

Avoid contact with clothing. Wear suitable protective clothing. Chemical resistant gloves.

Respiratory protection

No personal respiratory protective equipment normally required. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

9. Physical & Chemical Properties

Appearance

Liquid.

Physical state

Liquid.

Form

Liquid.

Color

Clear water-white

Odor

Orange

Odor threshold

Not available.

pH

Not applicable

Vapor pressure

Not available.

Vapor density

> 1 (air = 1)

Boiling point

379.4 °F (193 °C) @ 760mmHg

Melting point/Freezing point

Not available.

Solubility (water)

Miscible at all proportions

Specific gravity

0.78 - 0.8 @ 20 °C

Relative density

Not available.

Flash point

161.6 °F (72.0 °C) Tag Closed Cup

Flammability limits in air, upper, % by volume

8.9 %

Flammability limits in air, lower, % by volume

1.3 %

Auto-ignition temperature

Not available.

Evaporation rate

< 10 (BuAc = 100)

Viscosity

< 3 cSt @ 25°C

Percent volatile

97 %

Partition coefficient (n-octanol/water)

< 1

10. Chemical Stability & Reactivity Information

Chemical stability

Material is stable under normal conditions. Instability caused by elevated temperatures.

Conditions to avoid

Avoid temperatures exceeding the flash point. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
DIOCTYL SODIUM SULFOSUCCINATE (CAS 577-11-7)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2525 mg/kg
<i>Oral</i>		
LD50	Mouse	2.64 g/kg
	Rat	> 1320 mg/kg
D-LIMONENE (CAS 5989-27-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Oral</i>		
LD50	Mouse	5600 - 6600 mg/kg
	Rat	> 2000 mg/kg
<i>Other</i>		
LD50	Mouse	1.3 g/kg
	Rat	0.11 g/kg

* Estimates for product may be based on additional component data not shown.

Acute effects	Based on available data, the classification criteria are not met.
Local effects	May irritate eyes and skin. May cause irritation of respiratory tract.
Chronic effects	Prolonged exposure may cause chronic effects.
Carcinogenicity	Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

D-LIMONENE (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans.

Reproductive effects	Based on available data, the classification criteria are not met.
Symptoms and target organs	Irritating to eyes, respiratory system and skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

12. Ecological Information

Ecotoxicological data

Components	Species	Test Results
DIOCTYL SODIUM SULFOSUCCINATE (CAS 577-11-7)		
Aquatic		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		20 - 40 mg/l, 96 hours
D-LIMONENE (CAS 5989-27-5)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia pulex)
		69.6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)
		0.619 - 0.796 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity	Ecological injuries are not known or expected under normal use.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity	Classification not possible.
Persistence and degradability	Not inherently biodegradable.
Partition coefficient	
D'Gel®	< 1
D-LIMONENE	4.232
Mobility in environmental media	This product is miscible in water.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

TDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

15. Regulatory Information

Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS status	Controlled
WHMIS classification	B3 - Combustible Liquids D2B - Other Toxic Effects-TOXIC

WHMIS labeling



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 Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
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)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
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**This data sheet contains
changes from the previous
version in section(s):**

Product and Company Identification: Alternate Trade Names
Physical & Chemical Properties: Multiple Properties
GHS: Classification