



DECON GEL® 1108; DECON GEL® 1127; DECON GEL® 1128

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MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier : **DECON GEL® 1108; DECON GEL® 1127; DECON GEL® 1128**

Trade Name : DECON GEL®

Product Use : Decontamination; Cleaning agent.

Chemical Family : Mixture

Supplier's name and address:
CBI Polymers, LLC
1946 Young Street
Suite 480
Honolulu, HI, U.S.A.
96826
Website: <http://www.cellularbioengineering.com>

Information Telephone # : (808) 949-2208

24 Hr. Emergency Tel # : DOMESTIC NORTH AMERICA 800-424-9300 (Chemtrec)
INTERNATIONAL, CALL 703-527-3887 (Chemtrec) (collect calls accepted)

SECTION 2 - HAZARDS IDENTIFICATION

Classification : **OSHA Regulatory Status:** This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).

Emergency Overview : Blue liquid. Mild odour.
May be mildly irritating to skin, eyes and respiratory system. Mildly irritating to mouth, throat, stomach. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

POTENTIAL HEALTH EFFECTS:

Target organs : Eyes, skin, respiratory system and digestive system.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Signs and symptoms of short-term (acute) exposure

Inhalation : May cause irritation to the nose, throat and upper respiratory tract. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

Skin : Direct skin contact may result in little or no irritation.

Eyes : May cause mild eye irritation.

Ingestion : May cause irritation of mouth, throat, and stomach. May cause nausea, vomiting, and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Effects of long-term (chronic) exposure

: None known or reported by the manufacturer.

Conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects: See ECOLOGICAL INFORMATION (Section 12).

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt.%</u>
None reported.	Not applicable	Not applicable

Note: There are no hazardous ingredients present above reportable levels.



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SECTION 4 - FIRST AID MEASURES

- Inhalation** : Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
- Skin contact** : Remove contaminated clothing and shoes. If on skin, rinse well with water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact** : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : This product is considered non-flammable. This product will not burn, due to its water content. If water evaporates, residual material can burn when exposed to extreme heat, flame and other ignition sources. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Combustible Liquid Class III B.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

Hazardous combustion products

- : Carbon oxides; nitrogen oxides (NOx) ; Sulfur oxides; irritating fumes and smoke.

NFPA Rating

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
: *Health:* 1 *Flammability:* 1 *Instability:* 0 *Special Hazards:* None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : Restrict access to area until completion of clean-up. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Ensure clean-up is conducted by trained personnel only. Keep all other personnel upwind and away from the spill/release. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Discharge into the environment must be avoided. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.



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Spill response/cleanup : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Do not flush into surface water or sanitary sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials : None known or reported by the manufacturer.

Special spill response procedures :
 : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
 US CERCLA Reportable quantity (RQ): Not applicable

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures : Wear protective equipment during handling. Use in a well-ventilated area. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat and sources of ignition. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Storage requirements : Store in a cool, dry, well ventilated area. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : Strong oxidizing agents; Strong acids; Reactive metals.

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
None reported	N/Ap	N/Ap	N/Ap	N/Ap

Ventilation and engineering measures : Use only in well-ventilated areas. Provide mechanical ventilation in confined spaces. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye / face protection : Safety goggles or glasses as appropriate for the job.

Other protective equipment : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations : Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with eyes, skin and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Physical state	: Liquid	Appearance	: Blue liquid.
Odour	: Mild odour.	Odour threshold	: N/Av
pH	: 5.0 - 7.0	Specific gravity	: 1.01 – 1.02
Boiling point	: 212°F	Coefficient of water/oil distribution	: N/Av
Melting/Freezing point	: 0°F	Solubility in water	: Soluble
Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Vapour density (Air = 1)	: >1	Volatiles (% by weight)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Auto-ignition temperature	: N/Av
Flash point	: > 200°F	Upper flammable limit (% by vol.)	: N/Av
Flash point Method	: Closed cup	Flashback observed	: N/Av
Lower flammable limit (% by vol.)	: N/Av		
Flame Projection Length	: N/Av		

Section 10: Stability And Reactivity

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Extreme heat or cold may break emulsion, lowering active properties for restoration. Avoid contact with incompatible materials.
- Materials To Avoid And Incompatibility** : Incompatible materials (see Section 7).
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
None reported.	N/Av	N/Av	N/Av

- Carcinogenic status** : Not considered to be a hazard. No reportable components are classified as carcinogenic by IARC, ACGIH, OSHA or NTP.
- Reproductive effects** : Not considered to be a hazard.
- Teratogenicity** : Not considered to be a hazard.
- Mutagenicity** : Not considered to be a hazard.
- Epidemiology** : None known or reported by the manufacturer.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : None known or reported by the manufacturer.
- Irritancy** : Mild eye irritant. Slight or mild skin irritant.
- other important hazards** : None known or reported by the manufacturer.

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SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7.
- Methods of Disposal** : Contact your local, state or federal environmental agency for specific rules. Follow any additional local, state or federal requirements for cleaning containers prior to disposal.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	None	Not regulated.	Not regulated	None	
49CFR/DOT Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA information: All ingredients are listed on the TSCA Inventory, or are exempted materials.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Not applicable.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: None. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations



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US State Right to Know Laws:

California Proposition 65: This product contains a chemical known to the State of California to cause cancer. This product contains a chemical known to the State of California to cause developmental harm. Contains: n-methyl-pyrrolidone (< 1%); 1,4-Dioxane (< 0.1 ppm). Note that this product does contain ethyl alcohol, which is known to the State of California to cause developmental harm; however, this is only applicable when the chemical is present in alcoholic beverages.

Other U.S. State "Right to Know" Lists: The following chemicals, present at less than 1%, are specifically listed by individual States: Ethanol (CA, MA, MN, NJ, PA, RI); Dimethyl sulfoxide (NJ); 1-Methyl-2-pyrrolidone (MA, NJ, PA); Isopropyl alcohol (CA, MA, MN, NJ, PA, RI).

International Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients are listed on the Domestic Substances List (DSL).

SECTION 16 - OTHER INFORMATION

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 1 *Flammability:* 1 *Reactivity:* 0

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- N/Ap: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TPQ: Threshold Planning Quantity
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average

References

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2011.
- 2. International Agency for Research on Cancer Monographs, searched 2011.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2011 (Chempendium, HSDB, RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists - October 2006 version.
- 6. California Proposition 65 List - May 20, 2011 version.

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<p>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

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