DeconGel 1102 Page 1 of 6

MSDS Preparation Date (mm/dd/yyyy): 02/12/2013

MATERIAL SAFETY DATA SHEET

Manufacturer's name and address:

Refer to Supplier

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product identifier : DeconGel 1102

Product Code(s) : None reported.
Product Use : Cleaner
Chemical Family : Mixture

Supplier's name and address:

CBI Ploymers, Inc.

1946 Young Street

Suite 480

Honolulu, HI, USA 96826

Website: http://www.decongel.com

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Blue liquid. Mild odor.

CAUTION! Causes eye irritation. May cause skin irritation. May be harmful if inhaled or swallowed. May cause respiratory irritation. May cause central nervous system depression. May cause gastrointestinal irritation. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Contains material which may be a teratogen.

POTENTIAL HEALTH EFFECTS

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

Routes of exposure : Inhalation: YES Skin Absorption: YES 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. Symptoms may include pain,

headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness.

Skin : May cause mild skin irritation. May be absorbed and cause symptoms similar to those for inhalation.

Eves : May cause moderate to severe irritation.

Ingestion: May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea,

vomiting, dizziness, drowsiness and other central nervous system effects. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which

can be fatal.

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. May

cause central nervous system depression.

Conditions aggravated by overexposure

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

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : Potential teratogen. See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects

: See ECOLOGICAL INFORMATION (Section 12).

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

			ACGIH TLV		OSHA PEL	
<u>Ingredients</u>	CAS#	% (weight)	<u>TWA</u>	STEL	PEL	STEL
Polyvinyl alcohol - partially hydrolyzed	25213-24-5	7.00 - 13.00	N/Av	N/Av	N/Av	N/Av
Methanol	67-56-1	0.10 - 1.00	200 ppm	250 ppm	200 ppm ; 260 mg/m³	N/Av

DeconGel 1102 Page 2 of 6

Isopropanol	67-63-0	3.00 - 7.00	200 ppm	400 ppm	400 ppm ; 980 mg/m³	N/Av
N-Methyl-2-pyrrolidone	872-50-4	0.50 - 1.50	*10 ppm	N/Av	N/Av	N/Av
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched	127087-87-0	1.00 - 5.00	N/Av	N/Av	N/Av	N/Av
Polyethylene glycol octylphenyl ether	9036-19-5	1.00 - 5.00	N/Av	N/Av	N/Av	N/Av

^{*} Note: The ACGIH TLV listed above for the following ingredient(s) is an AIHA WEEL: N-methyl-2-pyrrolidone

SECTION 4 - FIRST AID MEASURES

Inhalation: Immediately remove person to fresh air. If breathing has stopped, give artificial respiration.

If breathing is difficult, give oxygen by qualified medical personnel only. When symptoms persist or in all cases of doubt seek medical advice.

Skin contact : For skin contact, flush with water for at least 15 minutes, while removing contaminated

clothing. If irritation persists, seek prompt medical attention. Launder clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be

destroyed.

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. Seek immediate medical attention/advice.

Ingestion : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek

immediate medical attention/advice.

Notes For Physician : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

: Not flammable under normal conditions of handling. However, may burn if exposed to extreme heat and flame. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. 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.

Flash point : >93.3°C / >200°F

Flash point Method : closed cup (ASTM 6420) Auto-ignition temperature : N/Av

Lower flammable limit (% by vol.)

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known.

Flame Projection Length : N/Ap Flashback observed : N/Ap

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); formaldehyde; irritating fumes and smoke.

NFPA Rating 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

: Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

DeconGel 1102 Page 3 of 6

MSDS Preparation Date (mm/dd/yyyy): 02/12/2013

Environmental precautions: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If

necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural

waterway or drinking supply.

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.

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): Methanol (5000 lbs / 2270 kg)

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. Use only non-sparking tools with this material. Keep containers tightly closed when not in

use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

: 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. No smoking in the area.

Incompatible materials: Strong oxidizing agents; Acids; Alkalies.

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

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering measures

Storage requirements

: Use only in well-ventilated areas. Provide sufficient ventilation to keep vapour concentration

below the given TLV and/or PEL.

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: Impervious gloves must be worn when using this product. Advice should be sought from

glove suppliers.

Eye / face protection : Chemical splash goggles must be worn when handling this material.

Other protective equipment: Wear resistant clothing and boots. An eyewash station and safety shower should be made

available in the immediate working area.

General hygiene considerations

Avoid breathing vapour or mist. Avoid contact with skin, eyes 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.

Permissible exposure levels : For individual ingredient exposure levels, see Section 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid Appearance : Blue liquid.

Odour : Mild odor. Odour threshold : N/Av

pH : 5-7

Boiling point: N/AvSpecific gravity: 8.50Melting/Freezing point: 100°C / 212°FCoefficient of water/oil distribution

: N/Av

Vapour pressure (mmHg @ 20° C / 68° F) Solubility in water : 1

: N/Av

Vapour density (Air = 1) : N/Av Evaporation rate (n-Butyl acetate = 1)

: N/Av

Volatile organic Compounds (VOC's) Volatiles (% by weight) : N/Av

: N/Av

DeconGel 1102 Page 4 of 6

MSDS Preparation Date (mm/dd/yyyy): 02/12/2013

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity

: Stable under the recommended storage and handling conditions prescribed.

Hazardous polymerization

: Will not occur.

Conditions to avoid

: Keep this product away from heat, sparks, flame, and other sources of ignition (e.g. pilot

lights, electric motors, static electricity).

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.

	LC50(4hr)	LD50		
<u>Ingredients</u>	<u>inh, rat</u>	<u>oral</u>	dermal	
Polyvinyl alcohol - partially hydrolyzed	N/Av	>2000 mg/kg	N/Av	
Methanol	64000 ppm/4H	5628 mg/kg	15800 mg/kg	
Isopropanol	17000 ppm/4H	4720 mg/kg	12890 mg/kg	
N-Methyl-2-pyrrolidone	<5100 mg/m³	3906 mg/kg	5000 - 10000 mg/kg	
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega- hydroxy-, branched	N/Av	1410 mg/kg	2830 mg/kg	
Polyethylene glycol octylphenyl ether	N/Av	4190 mg/kg	N/Av	

Carcinogenic status

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects

: Not expected to have other reproductive effects.

data. Effects were observed following doses which were not maternally toxic.

: Contains Methanol. Methanol may cause fetotoxic and teratogenic effects, based on animal data. Effects were observed following inhalation of high concentrations of Methanol, at doses which were not maternally toxic.

Not expected to be mutagenic in humans

Mutagenicity Epidemiology

Teratogenicity

Not expected to be mutagenic in humans.

⊏piaemiology

Not available.

Sensitization to material

Not expected to be a skin or respiratory sensitizer.

Synergistic materials

: Not available.

Irritancy

: Irritating to eyes. May cause skin irritation. May cause irritation to upper respiratory system.

May cause gastrointestinal irritation.

Other important hazards

: None known.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects

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.

Important environmental characteristics

: No information available.

Ecotoxicological: No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal Methods of Disposal : Handle waste according to recommendations in Section 7.

: Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

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. DeconGel 1102 Page 5 of 6

MSDS Preparation Date (mm/dd/yyyy): 02/12/2013

SECTION 14 - TRANSPORTATION INFORMATION					
Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	none	Not regulated.	Not regulated	none	\otimes
TDG Additional information	None.				
ICAO/IATA	None	Not regulated.	Not regulated	none	\otimes
ICAO/IATA Additional information	None.				
ICAO/IATA	None	Not regulated.	Not regulated	none	\otimes
ICAO/IATA Additional information	None.	ı			_

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): See Section 6

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: Immediate (Acute) health hazard; Chronic Health Hazard. 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 product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Isopropanol; N-methyl-2-pyrrolidone; Methanol.

US State Right to Know Laws:

California Proposition 65: This product contains a chemical known to the State of California to cause developmental harm. This product contains: N-methyl-2-pyrrolidone.

International Information:

Canadian WHMIS Classification:

Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material)

Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

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

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION				
HMIS Rating	: *- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe Health: *2 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

Page 6 of 6 DeconGel 1102

MSDS Preparation Date (mm/dd/yyyy): 02/12/2013

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

WHMIS: Workplace Hazardous Materials Identification System

References

- 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2008.
 - International Agency for Research on Cancer Monographs, searched 2009.
 - 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2009 (Chempendium, HSDB, RTECs).
 - 4. Material Safety Data Sheet from manufacturer.
 - 5. US EPA Title III List of Lists January 27, 2005 version.
 - 6. California Proposition 65 List June 19, 2009 version.

Prepared for:

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Prepared by:

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Canada: 1-888-977-4834 1-888-442-9628

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