



SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

Section 1: Product and Company Identification

Product Name:	KCI Leak Test Cryogenic/Low Temperature
Product Identifier:	Leak Detection Compound
Product Use:	Leak Detection Compound
Item Code(s):	
SDS Code:	045
Manufacturer:	KCI, Inc.
Physical Address:	1721 Toal Street Charlotte, N.C. 28206
Mailing Address:	P.O. Box 26614 Charlotte, N.C. 28221
Business Phone:	704-372-8435
Business Fax:	704-333-5955
E-mail Address:	info@kciincorporated.com
Web Address:	www.kciincorporated.com
Emergency Phone:	CHEMTREC (24-Hour) 1-800-424-9300
Date of Preparation:	June 27, 2019
OSHA Regulatory Status:	
WHMIS Classification:	

Section 2: Hazard Identification

CLASSIFICATION OF SUBSTANCE OR MIXTURE:



GHS08 Health Hazard

SPECIFIC TARGET ORGAN TOXICITY: Repeated Exposure - Category 2

H373	May cause damage to the kidneys through prolonged or repeated exposure.
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GHS07

ACUTE TOXICITY (ORAL): Category 4 H302

H302	Harmful if swallowed.
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Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Signal Word:

WARNING

Hazard-determining components of labeling:

ethylene glycol

Hazard Statements

Harmful if swallowed.

May cause damage to the kidneys through prolonged or repeated exposure.

Precautionary Statements

Do not breathe mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations

NFPA RATINGS (SCALE 0 - 4):



Health = 2

Fire = 0

Reactivity = 0

Section 3: Composition and Information on Ingredients

CHEMICAL CHARACTERIZATION: Mixtures

DESCRIPTION: Mixture of the substances listed below with nonhazardous additions.

DANGEROUS COMPONENTS:

107-21-1	ethylene glycol	30-60% w/w
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ADDITIONAL INFORMATION:

Exact concentrations and/or compositions are being withheld as trade secrets

Section 4: First Aid Measures

GENERAL INFORMATION: Symptoms of poisoning may even occur after several hours.

AFTER INHALATION: Supply fresh air; consult doctor in case of complaints.

AFTER SKIN CONTACT: Immediately rinse with water.

AFTER EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.

AFTER SWALLOWING: Call a poison center/doctor if you feel unwell. Rinse mouth.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

Section 5: Fire Fighting Measures

SUITABLE EXTINGUISHING AGENTS: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: No further relevant information available.

PROTECTIVE EQUIPMENT: No special measures required.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear protective clothing.

ENVIRONMENTAL PRECAUTIONS: Do not allow to enter sewers/ surface or ground water.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

Section 7: Handling and Storage

Handling

PRECAUTIONS FOR SAFE HANDLING: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES: No special measures required.

Storage

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES: No special requirements.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: Not required.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

Section 8: Exposure Controls / Personal Protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

107-21-1 ethylene glycol	EL (Canada)	Short-term value: 20** mg/m ³ Long-term value: 10** mg/m ³ Ceiling limit value: 100* mg/m ³ , 50*** ppm *Aerosol; **Particulate; ***Vapour
	EV (Canada) TLV (USA)	Ceiling limit value: 100 mg/m ³ Short-term value: NIC-127* NIC-10** mg/m ³ , NIC-50* ppm Long-term value: NIC-63.5* mg/m ³ , NIC-25* ppm Ceiling limit value: (100) mg/m ³ (H); *inh. fraction + vapor, P:**inh. fraction, H

ADDITIONAL INFORMATION: The lists that were valid during the creation were used as basis.

Personal protective equipment

GENERAL PROTECTIVE AND HYGIENIC MEASURES: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

BREATHING EQUIPMENT: Not required.

PROTECTION OF HANDS: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

MATERIAL OF GLOVES: Protective gloves not normally required. People with sensitive skin may prefer to wear water-proof gloves, such as rubber or neoprene, to avoid skin contact.

EYE PROTECTION: Goggles recommended during refilling.

Section 9: Physical and Chemical Properties

FORM:	Liquid
COLOR:	Colorless
ODOR:	Odorless
ODOR THRESHOLD:	Not determined.
PH-VALUE AT 20 °C:	7
CHANGE IN CONDITION:	
MELTING POINT/MELTING RANGE:	-54 °C
BOILING POINT/BOILING RANGE:	100 °C
FLASH POINT:	Not applicable.
FLAMMABILITY (SOLID, GASEOUS):	Not applicable.
IGNITION TEMPERATURE:	410 °C
DECOMPOSITION TEMPERATURE:	Not determined.
AUTO IGNITING:	Product is not selfigniting.
DANGER OF EXPLOSION:	Product does not present an explosion hazard.
EXPLOSION LIMITS:	
LOWER:	3.2 Vol %
UPPER:	53.0 Vol %
VAPOR PRESSURE AT 20 °C:	23 hPa
DENSITY AT 20 °C:	1.075 g/cm ³
RELATIVE DENSITY:	Not determined.
VAPOR DENSITY:	Not determined.
EVAPORATION RATE AT 20 °C:	.610 (BA=1)
SOLUBILITY IN / MISCIBILITY WITH WATER:	Fully miscible.
PARTITION COEFFICIENT (N-OCTANOL/WATER):	Not determined.
VISCOSITY:	
DYNAMIC:	Not determined.
KINEMATIC:	Not determined.
SOLVENT CONTENT:	
ORGANIC SOLVENTS:	0.0 %
VOC CONTENT:	0.0 g/l / 0.00 lb/gl
OTHER INFORMATION:	No further relevant information available.

Section 10: Stability and Reactivity

THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED:

No decomposition if used according to specifications.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reactions known.

CONDITIONS TO AVOID: No further relevant information available.

INCOMPATIBLE MATERIALS: No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

Section 11: Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS: Acute toxicity
LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION:

CHEMICAL	CAS#	ORAL LD50	DERMAL LD50
ETHYLENE GLYCOL	107-21-1	5840 mg/kg (rat)	9530 mg/kg (rabbit)

SPECIFIC SYMPTOMS IN BIOLOGICAL ASSAY: No further relevant information available.

PRIMARY IRRITANT EFFECT ON THE SKIN: No irritant effect.

PRIMARY IRRITANT EFFECT ON THE EYE: Irritating effect.

SENSITIZATION: No sensitizing effects known.

Additional toxicological information:

THE PRODUCT SHOWS THE FOLLOWING DANGERS ACCORDING TO INTERNALLY APPROVED CALCULATION METHODS FOR PREPARATIONS: Harmful

Carcinogenic categories

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):

None of the ingredients is listed.

NTP (NATIONAL TOXICOLOGY PROGRAM):

None of the ingredients is listed.

Section 12: Ecological Information

AQUATIC TOXICITY: No further relevant information available.

PERSISTENCE AND DEGRADABILITY: No further relevant information available.

Behavior in environmental systems

BIOACCUMULATIVE POTENTIAL: No further relevant information available.

MOBILITY IN SOIL: No further relevant information available.

Additional ecological information

General notes:

WATER HAZARD CLASS 1 (SELF-ASSESSMENT): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

OTHER ADVERSE EFFECTS: No further relevant information available.

Section 13: Disposal Considerations

Waste treatment methods

RECOMMENDATION:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings

RECOMMENDATION:

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

Section 14: Transportation Information

UN-Number
DOT, TDG, ADN, IMDG, IATA

Not regulated

UN proper shipping name
DOT, TDG, ADN, IMDG, IATA

Not regulated

Transport hazard class(es)
DOT, TDG, ADN, IMDG, IATA
Class

Not regulated

Packing group
DOT, TDG, IMDG, IATA

Not regulated

Environmental hazards:
Marine pollutant:

No

Special precautions for user:

Not applicable.

**Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code:**

Not applicable.

UN "Model Regulation":

Not regulated

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):

None of the ingredients is listed.

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):

107-21-1 ethylene glycol

3251-23-8 copper dinitrate

TSCA (TOXIC SUBSTANCES CONTROL ACT):

All ingredients are listed or exempted

Proposition 65

CHEMICALS KNOWN TO CAUSE CANCER:

None of the ingredients is listed.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES:

None of the ingredients is listed.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR MALES:

None of the ingredients is listed.

CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY:

107-21-1 ethylene glycol

Canadian Substance Listings

CANADIAN DOMESTIC SUBSTANCES LIST (DSL/NDL):

All ingredients are listed.

CANADIAN INGREDIENT DISCLOSURE LIST (LIMIT 0.1%):

None of the ingredients is listed.

CANADIAN INGREDIENT DISCLOSURE LIST (LIMIT 1%):

107-21-1 ethylene glycol

GHS Label Elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms



GHS07



GHS08

Signal word

Warning

Hazard-determining components of labeling:

ethylene glycol

Hazard Statements

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Precautionary Statements

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Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 16: Other Information

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond our control. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

This SDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. KCI provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of KCI. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.