



MATERIAL SAFETY DATA SHEET

Product:**069409 PROD, RGNT, TCAA-2-13C, 1000UG/ML, 1ML/1VIAL****Trichloroacetic Acid-2-13C Standard Solution, 1000 mg/L, 1 ml**

DIONEX Corporation
 1228 Titan Way
 P.O. Box 3603
 Sunnyvale, California 94088-3603

Emergency Phone: 1-800-424-9300 (CHEMTREC)
 Information Phone: (408) 737-0700
 Date Prepared: 9/29/2008

The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

2. HAZARDOUS IDENTIFICATION

HAZARD CLASS	Flammable	NFPA	HMIS
Eyes:	Irritant	HEALTH	2
Skin:	Irritant	FLAMMABILITY	4
Ingestion:	Irritant	REACTIVITY	1
Inhalation:	Irritant	NFPA SPECIAL	-
		HMIS PPE	-

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Methyl t-Butyl Ether	Trichloroacetic Acid				
PERCENT (%)	99.9	0.1	0	0	0	0
CAS NO.	1634-04-4	76-03-9				
EINECS NO.	200-898-6	200-927-2				
RISKS	R11, R38					
SAFETY	S16, S23, S24, S29, S33					



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4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and wash thoroughly with soap and water.
- INHALATION:** Vapors may cause irritation of the eyes, nose and throat as well as CNS depression (fatigue, dizziness, loss of concentration, with collapse, coma and death possible in cases of severe overexposure). High vapor concentrations may be irritating to the upper respiratory tract. Move to fresh air
- INGESTION:** Ingestion may cause discomfort and irritation of the gastrointestinal tract and CNS depression (fatigue, dizziness, collapse, coma and death). Aspiration into the lung may cause fatal chemical pneumonitis. If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

5. FIRE FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION:

HAZARDS:

- EXTINGUISHING MEDIA:** Carbon Dioxide, Foam, Dry Chemical
(Note: Carbon Dioxide is one of the decomposition products)
- SPECIAL FIRE FIGHTING PROCEDURES:** Extinguish preferably with dry chemical, foam, sand, carbon dioxide (CO₂) blanket.

6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
Wear appropriate protective clothing and eye protection.
Contain spill.
Collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
Mop up and store in a suitable waste container.
Wash contaminated areas with soap and water.

7. HANDLING AND STORAGE

- Ensure good ventilation.
Have an eye wash in the immediate area in case of emergency.
Store at <10°C
Keep container tightly closed
Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



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8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: May cause irritation of eyes and mucous membranes

CHRONIC: Unknown

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.

MECHANICAL (GENERAL): Use in hoods if possible

SPECIAL: None

OTHER: None

PROTECTIVE CLOTHING OR EQUIPMENT

GLOVES: Disposable laboratory gloves are adequate

EYE PROTECTION: Glasses or goggles.

RESPIRATORY: Use in a fume hood, NIOSH approved respiratory protection

OTHER: Labcoats

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless

ODOR: Ether-like

pH: No information found

MOLECULAR WEIGHT: 88.15

MELTING POINT: N/A

BOILING POINT: Approximately 55.3 °C

AUTOIGNITION TEMPERATURE: Approximately 425 °C

FLASH POINT: Approximately -28 °C

LOWER EXPLOSION LIMIT: Approximately 1.65 vol. %

UPPER EXPLOSION LIMIT: Approximately 8.4 vol. %

SPECIFIC GRAVITY: 0.74 g/cc



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10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers and acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon dioxide, carbon monoxide

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

SYMPTOMS AND SIGNS OF EXPOSURE: May cause minor soreness or redness of eyes or mucous membranes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

EMERGENCY AND FIRST AID PROCEDURES: In case of contact, wash skin thoroughly with soap and water.
Flush eyes with copious amounts of water for at least 15 minutes.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Submit to medical examination.

CARCINOGENICITY: No data found

RTECS #:

ACGIH TLV TWA: 40 ppm

OSHA PEL: No data found

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Methyl tertiary Butyl Ether	Chloroacetic Acid
RTECS #		
OSHA PEL		
ACGIH TLV	40 ppm	
TOXICITY DATA		



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12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

14. TRANSPORT INFORMATION

IATA CLASSIFICATION: IATA Dangerous Goods

UN ID NUMBER: 3316

PROPER SHIPPING NAME: Chemical Kit

CLASS OR DIVISION: 9

HAZARD LABEL(S): Miscellaneous

PACKAGING GROUP: Not Applicable

LIMITED QUANTITY PKG INSTRUCTION: Y915

MAXIMUM LIMITED QUANTITY: 1 kg

SPECIAL PROVISIONS: A44, A802

ERG CODE: 9L

TRAINING: Shippers must be trained and certified.

VARIATIONS: State and Operator Variations may exist.

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS:

PRODUCT SAFETY STATEMENTS:

16. OTHER INFORMATION