

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

APPLIED BIOSYSTEMS
850 LINCOLN CENTRE DRIVE
FOSTER CITY, CA 94404
(650) 570-6667 (USA)
EMERGENCY CONTACT:
1-800-424-9300 (NORTH AMERICA)

APPLIED BIOSYSTEMS
7 KINGSLAND GRANGE, WOOLSTON
WARRINGTON, CHESHIRE WA1 4SR
+44 1925 82 56 50 (UK)
EMERGENCY CONTACT:
+1-703-527-3887, REVERSE CHARGES
(INTERNATIONAL)

SUBSTANCE: POP-7 (TM) PERFORMANCE OPTIMIZED POLYMER (THE SPECIFIC CHEMICAL NAME IS BEING WITHHELD AS A TRADE SECRET IN ACCORDANCE WITH OSHA'S 29 CFR 1910.1200)

TRADE NAMES/SYNONYMS:
US MSDS P/N 4335540; P/N 4332241; P/N 4335615; P/N 4326629; P/N 4363929; 00227820

PRODUCT USE: For Research Use Only. Not for use in diagnostic procedures.

CREATION DATE: Apr 08 2002
REVISION DATE: May 31 2006

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: UREA
CAS NUMBER: 57-13-6
PERCENTAGE: 30-60

COMPONENT: POLYMER, TRADE SECRET
CAS NUMBER: Proprietary
PERCENTAGE: <10

3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=1 REACTIVITY=0

EMERGENCY OVERVIEW:
PHYSICAL FORM: liquid
MAJOR HEALTH HAZARDS: eye irritation

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: irritation, difficulty breathing, cough, sore throat

LONG TERM EXPOSURE: lung damage

SKIN CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: irritation

EYE CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information on significant adverse effects

INGESTION:

SHORT TERM EXPOSURE: irritation, sore throat, stomach pain

LONG TERM EXPOSURE: tumors

4. FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If a large amount is swallowed, get medical attention.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard.

EXTINGUISHING MEDIA: carbon dioxide, regular dry chemical, regular foam, water

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

FLASH POINT: No data available.

6. ACCIDENTAL RELEASE MEASURES**OCCUPATIONAL RELEASE:**

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

7. HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Store between 2 C and 8 C. See original container for storage recommendations. Keep separated from incompatible substances.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION**EXPOSURE LIMITS:****UREA:**

10 mg/m³ AIHA WEEL recommended TWA (WEEL)

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridge(s).

Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).

Any air-purifying respirator with a full facepiece and an organic vapor canister.

For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid
ODOR: Not available
BOILING POINT: Not available
FREEZING POINT: Not available
VAPOR PRESSURE: Not available
VAPOR DENSITY: Not available
SPECIFIC GRAVITY: Not available
WATER SOLUBILITY: Not available
PH: Not available
VOLATILITY: Not available
ODOR THRESHOLD: Not available
EVAPORATION RATE: Not available
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition.
Avoid contact with incompatible materials.

INCOMPATIBILITIES: acids, bases, combustible materials, metal salts, oxidizing materials

HAZARDOUS DECOMPOSITION:
Thermal decomposition products: oxides of carbon

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

UREA:
IRRITATION DATA:
22 mg/3 day(s)-intermittent skin-human mild; 20 percent/24 hour(s)
skin-human moderate

TOXICITY DATA:

>2100 mg/kg skin-rabbit LD50; 8471 mg/kg oral-rat LD50

LOCAL EFFECTS:

Irritant: eye

ACUTE TOXICITY LEVEL:

Slightly Toxic: ingestion

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: eye disorders, kidney disorders, respiratory disorders, skin disorders and allergies

POLYMER, TRADE SECRET:

TOXICITY DATA:

>8.2 gm/kg skin-rabbit LD50; >1 gm/kg oral-rat LD50

ACUTE TOXICITY LEVEL:

Slightly Toxic: ingestion

Additional toxicological data is available on the component(s) of this product. Please call 650-638-5635 or contact MSDS_Inquiry_CCRM@appliedbiosystems.com for more information.

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

LAND TRANSPORT ADR: No classification assigned.

LAND TRANSPORT RID: No classification assigned.

AIR TRANSPORT IATA: No classification assigned.

AIR TRANSPORT ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

15. REGULATORY INFORMATION

U.S. REGULATIONS:

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):
Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):
Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):
ACUTE: Yes
CHRONIC: No
FIRE: No
REACTIVE: No
SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Not listed on inventory. For purposes of 40 CFR 720.36, this product is for Research and Development (R&D) Use Only.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

16. OTHER INFORMATION

**MSDS SUMMARY OF CHANGES
3. HAZARDS IDENTIFICATION**