



Material Safety Data Sheet

Exposure Solvent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Exposure Solvent		
Synonyms/Generic Names:	none		
Product Use:	Laboratory use		
Manufacturer:	Roche NimbleGen, Inc. 500 S. Rosa Rd, Madison, WI 53719		
For More Information Call:	608-218-7600 x4 (Monday – Friday 8:00-4:30)	IN CASE OF EMERGENCY CALL: (24 Hours/Day, 7 Days/Week)	CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight %	Component	CAS #	EINECS# / ELINCS#	EC Classification*
	Proprietary Component A	Proprietary	Proprietary	Not Classified
	Proprietary Component B	Proprietary	Proprietary	Not Classified

* Symbol and R phrase according to EC Annex1

3. HAZARDS IDENTIFICATION

Clear, colorless solution

Routes of Entry: Skin, inhalation, ingestion.

Ingredients found on carcinogen lists:

INGREDIENT NAME	NTP STATUS	IARC STATUS	OSHA LIST	ACGIH
Proprietary Component A	Not Listed	Not Listed	Not Listed	Not listed
Proprietary Component B	Not Listed	Not Listed	Not Listed	Not Listed

4. FIRST AID INFORMATION

MAY BE FATAL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN IN LARGE QUANTITIES.

Inhalation: Causes respiratory tract irritation. edema. Inhalation may also cause sneezing, coughing, wheezing, salivation, nausea, giddiness. Move casualty to fresh air and keep at rest. Get medical attention immediately.

Eyes: Irritating to eyes. Causes eye irritation, lacrimation, redness, and pain, blurred vision and conjunctivitis. In case of eye contact, rinse with plenty of water and seek medical attention.

Skin: Irritating to skin and absorbed through skin. Causes skin irritation, reddening and itching, or inflammation. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if irritation persists or gets worse.

Ingestion: **Do Not induce vomiting unless instructed to by medical help!** Irritant. Causes gastrointestinal tract irritation, nausea, abdominal pain, vomiting, diarrhea. Wash out mouth with water and give 1-2 glasses of water or milk. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

COMBUSTIBLE PROPERTIES: (Proprietary Component A)

Flash Point:	89°C (192°F)
Flash Point method:	Closed cup
Autoignition Temperature:	215°C (419°F)
Upper Flame Limit (volume % in air):	2.6%
Lower Flame Limit (volume % in air):	28.5%

Extinguishing Media: Use method appropriate for surrounding fire. Cool containers with water.



Special fire-fighting procedures: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

Hazardous combustion products: Emits toxic fumes under fire conditions. (See also Stability and Reactivity section).

Unusual fire and explosion hazards: Vapor may travel considerable distance to source of ignition and flashback.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Cleanup personnel need personal protection from inhalation and skin/eye contact. Evacuate and ventilate the area, shut off ignition sources. Prevent spillage from entering drains. Absorb spill with vermiculite or other inert absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Any release to the environment may be subject to federal/national or local reporting requirements. Dispose of all waste or cleanup materials in accordance with local regulations. Containers, even when empty, will retain residue and vapors.

7. HANDLING AND STORAGE

Normal handling: See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

Storage: Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Keep from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: (consult local authorities for acceptable exposure limits)

Chemical name	Regulatory List	Value and type
Proprietary Component A	USA OSHA PEL	Not Available
	USA ACGIH	Not Available
	USA NIOSH	Not Available
	OSHA IDLH	Not Available
Proprietary Component B	USA ACGIH	0.1 ppm STEL
	USA OSHA	0.1 ppm ceiling
	UK	0.1 PPM
	USA NIOSH	0.1 ppm ceiling
	OSHA IDLH	2 ppm

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

Ventilation: Provide local exhaust, preferably mechanical.

Respiratory protection: If necessary use an approved respirator with organic vapor cartridges.

Eye protection: Wear chemical safety glasses with a face shield for splash protection.

Skin and body protection: Wear neoprene or rubber gloves, apron and other protective clothing appropriate to the risk of exposure.

Other Recommendations: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid
Physical state:	Liquid
Odor:	Slight sulfur odor
Odor Threshold:	Not Available
Specific Gravity:	0.1.09
pH:	Not Available
Melting Point/Freezing Point:	Not Available
Boiling Point/Range:	189°C (372°F)
Flammability:	Combustible (See section 5)
Flash point:	Combustible (See section 5)

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Evaporation Rate (Butyl Acetate =1):	Not Available
Explosive Limits:	(See section 5)
Vapor Pressure (at 20°C):	Not Available
Vapor Density (air =1):	Not Available
Solubility:	Completely soluble in water
Partition coefficient/n-octanol/water:	Not Available
% Volatile:	Not Available
Auto ignition Temperature:	215°C (419°F) (See section 5)

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Heat, ignition sources, incompatible materials.

Incompatibility: Oxidizing agents, perchlorates, aryl halides, alkalis, organic and inorganic acid chlorides, hydrobromic acid.

Hazardous decomposition products: Formaldehyde, Methyl mercaptan, sulfur dioxide, carbon oxides, sulfur oxides and nitrogen oxides.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects: See section 4 for symptoms of exposure and effects. Likely routes of exposure are skin, skin absorption and inhalation.

Target organs: Kidneys, blood, liver.

Acute Toxicity Data:

Proprietary Component A	LD50 [oral, rat]; 14500 mg/kg LC50 [rat]; Not Available LD50 Dermal [rabbit]; Not Available
Proprietary Component B	LD50 [oral, rat]; 970 mg/kg LCL [rat]; Not Available LD50 Dermal [rabbit]; Not Available

Chronic Effects: May have long term effects on liver, kidneys and blood.

Teratogenicity: Not Available

Mutagenicity: Not Available

Embryotoxicity: Not Available

Synergistic Products/Effects: Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial): LD50 (96 hrs); 33-37 mg/L (Oncorhynchus mykiss)
EC50 (48 hours); 58.2 mg/L (Daphnia Magna)

Persistence and Degradability: Not Available

Bioaccumulative Potential: Not Available

Mobility in Soil: Not Available

Other Adverse Effects: Not Available

13. DISPOSAL CONSIDERATIONS

RCRA: Hazardous waste? Not Available RCRA ID number: Not Available

Waste Residues: Carefully cleanup per spill procedures in section 6. Users should review their operations in terms of the applicable federal/nation or local regulations and consult with appropriate regulatory agencies before disposing of waste material.

Product containers: Containers, if thoroughly cleaned, preferably by rinsing three times and handling the rinse water as waste residues, may be disposed of or recycled as non-hazardous waste. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

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14. TRANSPORTATION INFORMATION

DOT: Not Regulated

TDG: Not Available

PIN: Not Available

IDMG: Not Available

Marine Pollutant: No

IATA/ICAO: Not Available

RID/ADR: Not Available

15. REGULATORY INFORMATION

TSCA Inventory Status: All ingredients are listed on the TSCA inventory.

Federal and State Regulations:

RTK hazardous substances: Not Available

SARA 302/304/311/312 extremely hazardous substances: No

SARA 313 toxic chemical notification and release reporting: No

CERCLA: Hazardous Substances: No

California Proposition 65: No

WHMIS Canada: CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C(200°F).

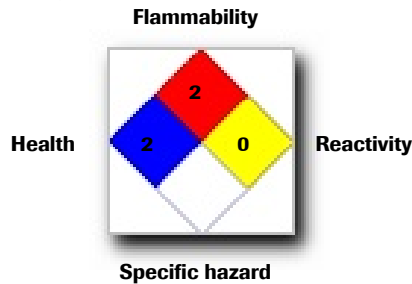
CLASS D-1B: Material causing immediate and serious toxic effects, Toxic.

DSCL (EEC): Not Classified

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	2
Reactivity	0

National Fire Protection Association (U.S.A.)



Protective Equipment:



ADR (Europe):



TDG (Canada):



DSCL (Europe):



16. OTHER INFORMATION

Current Issue Date: April 4, 2006
Previous Issue Date: N/A
Prepared by: Sherry Brock

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