

MATERIAL SAFETY DATA SHEET
EAGLE 2005 DEVELOPER
15020 2.00 US US 13.03.2000 MSDS_US

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code	15020
Trade Name	EAGLE 2005 DEVELOPER
Manufacturer/Supplier	Shipley Company
Address	455 Forest St. Marlborough, Massachusetts 01752
Phone Number	(508) 481-7950
Emergency Phone Number	(508) 481-7950
Chemtrec #	(800) 424-9300
MSDS first issued	4 October 1996
MSDS data revised	13 March 2000
Prepared By:	Environmental, Health & Safety Department
Local Sales Company	Shipley Company, 455 Forest Street, Marlboro, MA 01752 (508-481-7950)

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Components without CAS numbers are Trade Secret

Component Name	CAS# / Codes	Concentration
water	7732-18-5	24.00 - 25.00
lactic acid	50-21-5	22.00 - 23.00
Polyglycol		53.00 - 54.00
N/A		

3. HAZARD IDENTIFICATION

Main Hazards	- Corrosive - Skin - Eye - Respiratory System
Routes of Entry	Inhalation - Skin Contact - Eye contact
Carcinogenic Status	Not considered carcinogenic by NTP, IARC and OSHA
Target Organs	- Eye - Skin - Lung
Health Effects - Eyes	Liquid will cause severe conjunctival irritation, corneal damage, and may result in loss of vision. Vapor or mist will cause severe conjunctival irritation and corneal damage.
Health Effects - Skin	Material will cause chemical burns.
Health Effects - Ingestion	Swallowing may have the following effects: - corrosion of mouth, throat and digestive tract

3. HAZARD IDENTIFICATION

Health Effects - Inhalation

Exposure to vapor or mist may have the following effects:
- severe irritation of nose, throat and respiratory tract
Exposure to mist at high concentrations may have the following effects:
- severe irritation to nose, throat and respiratory tract and possibly lung damage

4. FIRST AID MEASURES

First Aid - Eyes

Immediately flush the eye with plenty of water for at least 20 minutes, holding the eye open. Obtain medical attention immediately.

First Aid - Skin

Immediately flush the skin with large quantities of water, preferably under a shower. Remove contaminated clothing while flushing skin. Continue washing for at least 20 minutes. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention immediately.

First Aid - Ingestion

Do not induce vomiting. Wash out mouth with water. Obtain medical attention immediately.

First Aid - Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians

Treat symptomatically. Treat skin burns conventionally.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Use water spray, foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures

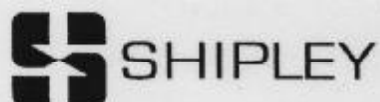
No specific measures necessary.

Unusual Fire & Explosion Hazards

None known.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.



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6. ACCIDENTAL RELEASE MEASURES

Spill Procedures	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.
Personal Precautions	Wear appropriate protective clothing. Wear respiratory protection.
Environmental Precautions	Prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Handling	Use local exhaust ventilation. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available. Avoid inhaling vapor. Keep container tightly closed when not in use.
Storage	Store in original containers. Storage area should be: - cool - dry - well ventilated - out of direct sunlight - away from incompatible materials
Other	None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
lactic acid	None assigned.
Engineering Control Measures	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection	Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.
Hand Protection	Neoprene or nitrile gloves. Other chemical resistant gloves may be recommended by your safety professional.
Eye Protection	Chemical goggles and face shield.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Body Protection - rubber or neoprene apron

9. PHYSICAL AND CHEMICAL PROPERTIES

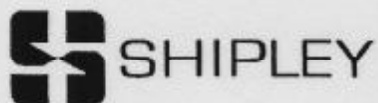
Physical State	Liquid
Color	Colorless - Straw colored
Odor	Mild
VOC (g/l)	0.0
Specific Gravity	1.0935
pH	~2.2
Boiling Range/Point (°C/F)	Decomposes before boiling.
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	Not applicable.
Solubility in Water	Completely soluble.
Vapor Density (Air = 1)	Not applicable.
Evaporation Rate	Not applicable.
Vapor Pressure	Not applicable.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	- contact with incompatible materials
Incompatibilities	- Alkalies - Acids
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	- carbon monoxide - carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute Data	Lactic Acid: Oral LD50 (rat) 7600mg/kg. Dermal LD50 (rat) 7940mg/kg.
Chronic/Subchronic Data	No relevant studies identified.



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11. TOXICOLOGICAL INFORMATION

Genotoxicity	No relevant studies identified.
Reproductive/Developmental Toxicity	No relevant studies identified.
Additional Data	None.

12. ECOLOGICAL INFORMATION

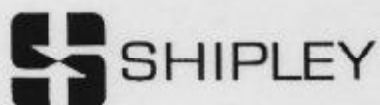
Mobility	The product will dissolve rapidly in water. The product is poorly absorbed onto soils or sediments. The product will leach into soil.
Persistence/Degradability	The product is expected to be readily biodegradable.
Bio-accumulation	Product is not expected to bioaccumulate.
Ecotoxicity	The product may be harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with all applicable local and national regulations.
Container Disposal	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORT INFORMATION

DOT Ground:	Corrosive liquid, acidic, organic, n.o.s.
UN Proper Shipping Name	Corrosive Liquid, acidic, organic, n.o.s.
UN Class	(8) Corrosive
UN Number	UN3265
UN Packaging Group	II
N.O.S. 1:	Lactic Acid
N.O.S. 2:	Not applicable.
Subsidiary Risks	None.
ADR/RID Substance Identification Number	None assigned.
CERCLA RQ	None.



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14. TRANSPORT INFORMATION

Marine Pollutant None.

15. REGULATORY INFORMATION

TSCA Listed All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

TSCA Exemptions N/A

TSCA Sec.12(b) Export N/A

Notification

WHMIS Classification E

MA Right To Know Law All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at the de minimus concentration have been identified in the hazardous ingredients section of the MSDS.

California Proposition 65 This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA TITLE III-Section 311/312 Categorization (40 CFR 370) Immediate health hazard

SARA TITLE III-Section 313 (40 CFR 372) This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Rating- FIRE 0

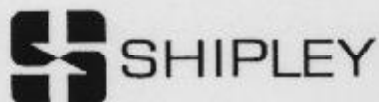
NFPA Rating- HEALTH 2

NFPA Rating- REACTIVITY 0

NFPA Rating- SPECIAL None.

Revisions Highlighted First Aid - Skin
Toxicological Information

Abbreviations CAS#: Chemical Abstract Services Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit



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16. OTHER INFORMATION

NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety
LD50: Lethal Dose 50%
LC50: Lethal Concentration 50%
BOD: Biological Oxygen Demand
Koc: Soil Organic Carbon Partition Coefficient.
TLm: Median Tolerance Limit

Disclaimer

The data contained herein is based on information that Shipley Company believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of Shipley Company is authorized to vary any of such data. Shipley Company and its agents disclaim all liability for any action taken or foregone on reliance upon such data.
