



ELECTRONIC MATERIALS

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION**INTERVIA(TM) 3D-N DEVELOPER**

Revision date: 07/18/2006

Supplier

Rohm and Haas Electronic Materials LLC
455 Forest Street
Marlborough, MA 01752 United States of America

For non-emergency information contact: 508-481-7950

Emergency telephone number

Chemtrec 800-424-9300
Rohm and Haas Emergency 215-592-3000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	< 25.0 %
Lactic acid	50-21-5	< 25.0 %
Polyglycol		> 50.0 %

3. HAZARDS IDENTIFICATION**Emergency Overview****Appearance**

Form liquid
Colour Colorless - Straw colored
Odour mild

Hazard Summary**WARNING!**

Acidic liquid and vapor. Causes skin, eye, and respiratory tract irritation.

Potential Health Effects

Primary Routes of Entry: Inhalation, ingestion, eye and skin contact.

Eyes: Material can cause the following:
severe irritation

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective clothing.

Environmental precautions

Prevent the material from entering drains or water courses.

Do not discharge directly to a water source.

Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Methods for cleaning up

Cover with absorbent or contain. Collect and dispose.

7. HANDLING AND STORAGE

Handling

Use only in well-ventilated areas. Avoid breathing vapor. Avoid contact with eyes, skin and clothing.

Keep container tightly closed.

Further information on storage conditions: No special precautions necessary.

Storage

Storage conditions: Store in original container. Storage area should be: cool dry well ventilated out of direct sunlight away from incompatible materials

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Eye protection: Chemical goggles and face shield.

Hand protection: Butyl rubber

Skin and body protection: not applicable

Respiratory protection: No personal respiratory protective equipment normally required.

Engineering measures: Local exhaust

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	Colorless - Straw colored
Odour	mild
pH	2.2
Flash point	Nonflammable

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Upper explosion limit	not applicable
Vapour pressure	not applicable

Component: Lactic acid

Vapour pressure	0.0108 kPa at 25 °C (77 °F)
Relative vapour density	not applicable
Solubility/qualitative	completely soluble
Relative density	1.09
Evaporation rate	not applicable
VOC's	0 g/l

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	Stable under normal conditions.
Conditions to avoid	contact with incompatible materials
Materials to avoid	bases acids
Hazardous decomposition products	Carbon monoxide, carbon dioxide,
polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Component: Lactic acid**Acute oral toxicity** LD50 rat 3,730 mg/kgComponent: Polyglycol**Acute oral toxicity** LD50 rat 4,150 mg/kgComponent: Polyglycol**Acute inhalation toxicity** LC50 rat 4 h 320 mg/m3Component: Lactic acid**Acute dermal toxicity** LD50 rat 7,940 mg/kgComponent: Polyglycol**Acute dermal toxicity** LD50 rabbit >5,000 mg/kgComponent: Lactic acid**Skin irritation** DOT Corrosivity testing conducted on stainless steel and laboratory animals determined that this product is not corrosive.

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Component: Polyglycol

Skin irritation

A single application to rabbit skin produced mild irritation.

Component: Lactic acid

Eye irritation

Risk of serious damage to eyes.

Component: Polyglycol

Eye irritation

Single application to the rabbit eye produced minimal conjunctival irritation.

Component: Lactic acid

Mutagenicity

Not mutagenic when tested in bacterial or mammalian systems.

Component: Polyglycol

Mutagenicity

A positive ames test was observed.

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

13. DISPOSAL CONSIDERATIONS

Environmental precautions: Prevent the material from entering drains or water courses.

Do not discharge directly to a water source.

Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Disposal

Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Immediate health hazard

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SARA TITLE III: Section 313 Information (40CFR372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D):

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
This product does not contain any substances subject to Section 12(b) export notification.

US. Toxic Substances Control Act (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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.

16. OTHER INFORMATION**Hazard Rating**

	Health	Fire	Reactivity
NFPA	2	0	0

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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INTERVIA(TM)3D-N PHOTORESIST

Potential Health Effects

Primary Routes of Entry: Inhalation, ingestion, eye and skin contact, absorption.

Eyes: May cause pain, transient irritation and superficial corneal effects.

Skin: Material may cause irritation.

Prolonged or repeated exposure may have the following effects:

allergic sensitization

defatting of skin leading to irritation and dermatitis

central nervous system depression

liver damage

kidney damage

adverse reproductive effects

Ingestion: Swallowing may have the following effects:

irritation of mouth, throat and digestive tract

headache

nausea

vomiting

Repeated doses may have the following effects:

central nervous system depression

liver damage

kidney damage

adverse reproductive effects

Inhalation: Inhalation may have the following effects:

irritation of nose, throat and respiratory tract

Higher concentrations may have the following effects:

systemic effects similar to those resulting from ingestion

Target Organs: Eye

Respiratory System

Skin

nervous system

Liver

kidney

Reproductive System

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA

4. FIRST AID MEASURES

Inhalation: Remove from exposure. If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

Skin contact: Continue washing for at least 15 minutes. Obtain medical attention if blistering occurs or redness persists. Wash clothing before reuse.

Eye contact: Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.