

MATERIAL SAFETY DATA SHEET MICROPOSIT DEVELOPER CD-30

30340 3.00 US Current 08.06.1999

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

30340 **Product Code**

MICROPOSIT DEVELOPER CD-30 **Trade Name**

Shipley Company Manufacturer/Supplier

455 Forest St. **Address**

Marlborough, Massachusetts 01752

(508) 481-7950 **Phone Number**

Emergency Phone Number (508) 481-7950 (800) 424-9300

Chemtrec # 26 September 1996 MSDS first issued

8 June 1999 MSDS data revised

Environmental, Health & Safety Department Prepared By:

7732-18-5

--- .-

Shipley Company, 455 Forest Street, Marlboro, MA 01752 **Local Sales Company**

(508-481-7950)

COMPOSITION/INFORMATION ON THE INGREDIENTS 2.

Components without CAS numbers are Trade Secret

CAS# / Codes Component Name

1. water

2. Alkaline-phospate salt

Silicate compound

Concentration

93.00 - 98.00 1.00 - 5.00 1.00 - 3.00

3. HAZARD IDENTIFICATION

- Irritant - Skin - Eye - Respiratory System - Kidney Main Hazards

Inhalation, ingestion, eye and skin contact. **Routes of Entry**

Not considered carcinogenic by NTP, IARC and OSHA Carcinogenic Status

- Skin - Eye - Respiratory System - Kidney **Target Organs**

Liquid, mist or vapor will cause conjunctival irritation and **Health Effects - Eyes**

possibly corneal damage.

Material will cause severe irritation and may cause chemical Health Effects - Skin

burns. Repeated or prolonged contact may produce defatting

of the skin leading to irritation and dermatitis.

Swallowing may have the following effects: **Health Effects - Ingestion**

- severe irritation of mouth, throat and digestive tract - kidney

damage

Exposure to vapor or mist may have the following effects: Health Effects - Inhalation

- severe irritation of nose, throat and respiratory tract Exposure to vapor at high concentrations may have the

following effects:

- lung damage - kidney damage



MATERIAL SAFETY DATA SHEET MICROPOSIT DEVELOPER CD-30

30340 3.00 US Current 08.06.1999

4.	FIRST AID MEASURES		
	First Aid - Eyes	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.	
	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 15 minutes. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.	
	First Aid - Ingestion	Wash out mouth with water. Obtain medical attention.	
	First Aid - Inhalation	Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately	
	Advice to Physicians	Treat symptomatically.	
5.	FIRE FIGHTING MEASURES		
	Extinguishing Media	Not readily combustible. Select extinguishing agent appropriate to other materials involved.	
	Special Fire-Fighting Procedures	None.	
	Unusual Fire & Explosion Hazards	None.	
	Protective Equipment for Fire- Fighting	No special fire-fighting clothing required.	
6.	ACCIDENTAL RELEASE MEASURES		
•	Spill Procedures	Contain and absorb using earth, sand or other inert material	
	Personal Precautions	Wear appropriate protective clothing.	
	Environmental Precautions	None known.	
7.	HANDLING AND STORAGE	_	
	Handling	Use in well ventilated area.	
	Storage	Store in original containers. Storage area should be: - cool - dry - well ventilated - out of direct sunlight	
	Other None.		

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.



MATERIAL SAFETY DATA SHEET **MICROPOSIT DEVELOPER CD-30**

30340 3.00 US Current 08.06.1999

EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) 8.

Occupational Exposure Standards

1. Alkaline-phospate salt

None assigned.

2. Silicate compound

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.

Body Protection

Normal work wear.

PHYSICAL AND CHEMICAL PROPERTIES 9.

Physical State

Liquid

Color

Almost colorless

Odor

Odorless

VOC (g/l)

None.

Specific Gravity

1.0 - 1.1

pH

>12

Boiling Range/Point (°C/F)

begins at 120 °C.

Flash Point (PMCC) (°C/F)

Not Flammable

Explosion Limits (%)

Not applicable.

Solubility in Water

Completely soluble. Heavier than air.

Vapor Density (Air = 1) **Evaporation Rate**

Slower than ether

Vapor Pressure

Not applicable.

STABILITY AND REACTIVITY 10.

Stability

Stable under normal conditions.

Conditions to Avoid

- contact with incompatible materials - Exposure to direct

sunlight

Incompatibilities

- Acids



MATERIAL SAFETY DATA SHEET MICROPOSIT DEVELOPER CD-30

30340 3.00 US Current 08.06.1999

10.	STABILITY	AND REACTIVITY	(continued)
-----	-----------	----------------	-------------

Hazardous Polymerization

Will not occur.

Hazardous Decomposition

Products

- oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

Acute Data

Silicate compound: Oral LD50 (rat) 1280mg/kg.

A single 4h semi-occlusive application to intact rabbit skin produced severe irritation (mean scores for erythema or

edema much greater than 2).

Chronic/Subchronic Data

No relevant studies identified.

Genotoxicity

No adverse effects are expected.

Reproductive/Developmental

Toxicity

No adverse reproductive or fetal developmental effects are

expected.

Additional Data

No relevant information known.

12. ECOLOGICAL INFORMATION

Mobility

The product is involatile and water soluble and will partition to the aqueous phase. The product is poorly absorbed onto soils

or sediments.

Persistence/Degradability

The product is expected to be readily biodegradable.

Bio-accumulation

Product is not expected to bioaccumulate.

Ecotoxicity

Silicate compound: Tests on the following species gave a

96h LC50 of 530mg/litre:

- mosquito fish

Tests on the following species gave a 48h LC50 of 113mg/

litre:

- ceriodaphnia dubia (water flea)

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



MATERIAL SAFETY DATA SHEET MICROPOSIT DEVELOPER CD-30

30340 3.00 US Current 08.06.1999

14.	TRANSPORT INFORMATION (continued)	
	505	_

DOT Ground: UN Proper Shipping Name Not Regulated Not Regulated

UN Class UN Number None.

UN Packaging Group

None None.

N.O.S. 1:

Not applicable.

N.O.S. 2:

Not applicable.

Subsidiary Risks

None.

ADR/RID Substance Identification

Number

None assigned.

CERCLA RQ Marine Pollutant None. None.

REGULATORY INFORMATION 15.

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.

TSCA Exemptions

TSCA Sec.12(b) Export Notification

This product does not contain any substances subject to

Section 12(b) export notification.

WHMIS Classification

MA Right To Know Law

None.

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) SARA TITLE III-Section 313 (40

Immediate, delayed health hazard

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

OTHER INFORMATION 16.

CFR 372)

NFPA Rating- FIRE

0

NFPA Rating- HEALTH

1

NFPA Rating- REACTIVITY

0

NFPA Rating-SPECIAL

None.

Revisions Highlighted

Hazard Identification First Aid Measures

Toxicological Information **Ecological Information**



MATERIAL SAFETY DATA SHEET MICROPOSIT DEVELOPER CD-30

30340 3.00 US Current 08.06.1999

16. OTHER INFORMATION (continued)

Abbreviations

N/A: Denotes no applicable information was found.

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
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.