

(In accordance with ANSI Z400.1-2004)

PRODUCT NAME: TZ & TZCL DIRECT EMULSION

Previous Issue: April 13, 2012 Date Prepared: January 7, 2014

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: TZ & TZCL DIRECT EMULSION

Company: ULANO® CORPORATION

110 Third Avenue

Brooklyn, NY 11217

Phone: 718-237-4700 Fax: 718-802-1119

Emergency contact: 1-800-424-9300 (CHEMTREC)

MSDS prepared by: P.Drago

Recommended use: Manufacture of stencils for screenprinting

2. HAZARD IDENTIFICATION OF THE PREPARATION

This preparation is not classified as hazardous according to 29CFR 1910-1200.

Appearance: viscous liquid

Odor: mild odor

Potential Health Effects: See Section 11 for more information

Potential Health Effects Eyes: This product may be irritating to the eyes.

Potential Health Effects: Skin: Repeated exposure may cause irritation to skin

Potential Health Effects: Ingestion: Ingestion of this product may be irritating to the digestive

system.

Potential Health Effects: Inhalation: No known effect Target Organs: No known

Potential Environmental Effects: See Section 12 for more information.

This product does not contain any carcinogens or potential carcinogens as listed

by OSHA, IARC or NTP.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned hazardous materials with non-hazardous materials

Hazardous components:

EINECS-No Name Hazard %content

CAS-No. R-phrases

n.a

Additional information:

For full text of risk phrases see Section 16.

Date Prepared: January 7, 2014

4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention. Place in stable side position and seek medical advice. If breathing is irregular or has stopped, apply artificial respiration.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops. Wash clothing before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flammable: no

Means of extinction: treat surrounding fire Unsuitable extinguishing media: Hard water stream

Flash point:

Upper flammable limit:

Lower flammable limit:

n.a

Explosion data impact:

Explosion data static:

Autoignition temp:

n.a

Hazardous combustion products: typical carbon oxygen compounds. Fire fighters should wear SCBA for fighting fires in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

Do not empty large quantities directly into drains. Collect with liquid absorbing material and proceed according to local waste disposal regulations.

7. HANDLING AND STORAGE

Keep container tightly closed and in a cool and well ventilated place. Ensure adequate ventilation. Avoid contact with skin and eyes.

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Date Prepared: January 7, 2014

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

CAS # Name OSHA TWA ACGIH TWA

No exposure limits established for ingredients

Engineering controls

General- not required Local exhaust- recommended

Other- none

Personal Protection

Gloves- recommended Respirator- not required

Eye- protective goggles recommended

Protective footwear- not required Protective clothing- not required

Other- none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: viscous liquid

Color: TZ is blue / TZ-CL is white

Odor: mild Flash point: n.a Ignition temperature: n.a

Density: ~1.1 g/cm³

Viscosity: ~9,000 cps @ 25°C

Explosion limits: n.a

Boiling point: ~212°F (100° C)

Vapour density: >1(air=1)
Vapour pressure: 25hPa @ 25°C
Freezing point: not known
pH: 4.4-5.0

Coefficient of water/ oil distribution: not known Volatile Organic Compounds: less than 0.1%

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see Section 7).

Store as a non-hazardous liquid

INCOMPATABILITY: Strong oxidizers

Date Prepared: January 7, 2014

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

General information:

Effects of acute exposure: Repeated or prolonged contact causes local irritation of skin and

mucous membranes, particularly the eyes

Irritancy of product- possible
Skin sensitization- none reported
Respiratory sensitization- none known

Carcinogenicity- no IARC- no ACGIH - no

Reproductive toxicity - none known
Teratogenicity - none known
Embryotoxicity - none known
Mutagenicity - none known

Name of synergistic products/effects- none known

12. ECOLOGICAL INFORMATION

Do not empty into drains or release into open water.

Do not store at public waste disposal sites.

13. WASTE DISPOSAL INFORMATION

Dispose of as a non-hazardous aqueous waste

Empty container: scrap metal recycling or re-conditioning

Soiled container: (treatment like product itself)

14. TRANSPORT INFORMATION

ADR: (Europe) Class: Not regulated RID (Europe: RAIL) Class: Not regulated DOT: (USA) Class: Not regulated IATA: (AIR) Class: Not regulated IMDG: (Ocean) Class: not regulated

UN # n.a
Packaging group: n.a
EMS: n.a
Marine pollutant: No

Date Prepared: January 7, 2014

15. REGULATORY INFORMATION

Global Inventories (components):

TSCA: United States - included DSL: Canada - included ENCS: Japan - included EINECS: Europe - included

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of information required by the CPR, and it is not classified as a hazardous material.

Labeling

n.a

R-phrases:

n.a

S-phrases:

n.a

Special labeling:

n a

National Regulation for Germany:

Water pollution class: 1

16. OTHER INFORMATION

HMIS: Health 1, Flammability 0, Reactivity 0

Text of risk phrases mentioned in Section 2: n.a

For further information please refer to our technical information sheet. Data in this MSDS correspond with our current level of knowledge, but do not represent any assurance of product properties. The user personally is responsible for compliance with all legal requirements.

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