(According to ANSI Z400.1-2004)

Product: 25022 PREGAN COMBI-CLEAN
Date: 8/29/2007 Revision date: 9/92008

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Code: 25022

Product Name: PREGAN COMBI-CLEAN

Company: KIWO, Inc.

1929 Marvin Circle

Seabrook, TX 77586 USA

Phone: 281-474-9777 Fax: 281-474-7325

Emergency Contact: 1-800-255-3924 (Chemtel)

MSDS prepared by: Fred Widman

Recommended use: Screen Printing Screen Cleaner

2. HAZARD IDENTIFICATION OF THE PREPARATION

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

EMERGENCY OVERVIEW

Appearance / Odor: liquid / clear, odorless

Potential Health Effects: See Section 11 for more information Likely routs of exposure: Eye and skin contact and ingestion

Potential Health Effects: Eyes

This product may be irritating to the eyes.

Potential Health Effects: Skin

This product may be mildly irritating to the skin

Some absorption expected Potential Health Effects: Ingestion

Ingestion of this product may be irritating to the digestive system. Symptoms

may include nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

Inhalation of this product may be irritating to the respiratory system.

Xi Irritant

36/38 Irritating to eyes and skin

52/53 Harmful to aquatic organisms. May cause long-term adverse

effects in the aquatic environment in the aquatic environment.

Target Organs: Not known

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Potential Environmental Effects: See Section 12 for more information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials and non-hazardous substances Hazardous components:

| EINECS-No | Name | Hazard | %content |
|------------------|--------------------------|--------|------------|
| CAS-No. | R-phrases | | |
| None | 2(2-Methoxymethylethoxy) | | |
| 25498-49-1 | -methylethoxypropanol | Xi | 40.0-70.0% |

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| EINECS-No | Name | Hazard | %content |
|------------------|---------------------------------|--------|------------|
| CAS-No. | R-phrases | | |
| 204-626-7 | 4-Hydroxy-4-methylpentane-2-one | | |
| 123-42-2 | 36 | Xi | 10.0-30.0% |
| 212-828-1 | N-Methyl-2-pyrrolidone | | |
| 872-50-4 | 36/38 | Xi | 15.0-40.0% |

Additional information:

For full text of risk phrases see Section 16.

4. FIRST AID MEASURES

After skin contact:

Clean thoroughly with soap and water.

After eye contact:

Remove contact lenses; keep eyelids open, rinse under running water for at least 10 minutes. If irritation continues, seek medical advice.

After ingestion:

Do not induce vomiting - seek medical advice. If unconscious, do not administer anything orally. Place in stable side position and seek medical advice. If breathing is irregular or has stopped, apply artificial respiration. Aspiration into lungs can produce severe lung damage and is a medical emergency.

After Inhalation:

If symptoms are experienced, remove from source of contamination or move victim to fresh air. If breathing has stopped, apply artificial respiration. Seek medical advice.

Note to Physicians: Treat as exposure to organic solvents

5. FIRE-FIGHTING MEASURES

Flammable: combustible, Means of extinction: foam, dry powder, carbon dioxide Unsuitable extinguishing media: Hard water stream

Flash point: 200°F (93°C) (TCC)

Upper flammable limit: 9.4%
Explosion data impact: Not known

Lower flammable limit: 1.1%

Explosion data static: above flashpoint ves

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

Autoignition temp: 370 °C

6. ACCIDENTAL RELEASE MEASURES

Do not empty large quantities into drains. Keep away sources of ignition. Ensure adequate ventilation. Prevent unauthorized access.

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, especially when using a spray-gun. Avoid contact with skin and eyes. Avoid flammable/explosive air / vapor-mixtures and prevent concentrations exceeding the exposure limits.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

| CAS# | Name | OSHA PEL | ACGIH TWA | |
|-----------|--|--------------------|------------------|--|
| 2598-49-1 | 2(2-Methoxymethylethoxy) -methylethoxypropanol | Not established | Not established | |
| 123-42-2 | 4-Hydroxy-4-methylpentane- | 2-one Not establis | hed 50 ppm | |
| 872-50-4 | N-Methyl-2-pyrrolidone | Not established | Not established | |

Engineering controls

General- not required

Local exhaust- recommended. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition for details. Other- none

Personal Protection

Gloves- solvent impermeable recommended

Respirator- yes if local or general exhaust is not used Eye- NIOSH approved protective goggles recommended

Protective footwear- not required Protective clothing- not required

Other-none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid

Color: clear / transparent

Odor: odorless

200°F (93° C) Flash point: 370° C Ignition temperature: Density: 0.99 g/cm³ Viscosity: 200 mpas Explosion limits: 1.1 – 9.4 Vol % Boiling point: ~180° C Vapour density: Not known Vapour pressure: < 0.2 mm Hg Freezing point: not applicable not applicable pH:

Coefficient of water/ oil distribution: not known

Volatile Organic Compound (VOC) content: 856 GRAMS / LITER, 6.56 LBS / GALLON

10. STABILITY AND REACTIVITY

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

Store as a combustible liquid

Possible Harmful Reactions: None known

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

(According to ANSI Z400.1-2004)

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| COMPONENT | CAS# | LD ₅₀ | LC ₅₀ |
|---|------------|--|------------------|
| 4-Hydroxy-4- methylpentane-2-one | 123-42-2 | 12,565 mg/kg oral, rat | Not available |
| 2(2- methoxymethylethoxy)- methylethoxypropanol | 25498-49-1 | 3200 mg/kg, oral, rat 20 ml/kg, skin rabbit | Not available |
| N-Methyl-2-pyrrolidone | 872-50-4 | 7000 mg/kg, oral, rat | Not available |

General information:

Effects of acute exposure- irritation

Repeated exposure on skin may lead to dermatitis or slight irritation.

Irritancy of product- yes

Skin sensitization-possible

Respiratory sensitization-possible

May cause minor eye irritation and reversible corneal opacity. Effects of eye irritation is reversible.

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

This preparation has been classified by the conventional method (calculating procedure) of EG directive 1999/45/EG and according to its ecotoxic properties, -*001(see Sections 2 and 15 for detailed information).

Do not empty into drains or release into open water. Do not store at public waste disposal sites.

13. WASTE DISPOSAL INFORMATION

Contaminated product, soil, or water may be hazardous waste. (See 40 U.S. Code of Federal Regulations (CFR) 261 and 29 CFR 1910). Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids. Avoid flame-outs. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade. Avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations

Empty container: scrap metal recycling or re-conditioning

Soiled container: (treatment like product itself)

14. TRANSPORT INFORMATION

ADR/RID/DOT: Class: not regulated

UN: 1263

Paint related material

Packaging group: n.a.

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IMDG: Class: not regulated

EMS: n.a. UN: 1263

Paint related material

Marine pollutant: no Packaging group: n.a.

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR and is classified as a D2B hazardous material.

All ingredients are listed on the TSCA registry.

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.

Labeling

Xi Irritant

R-phrases:

36/38 Irritating to eyes and skin

52/53 Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment

S-phrases:

24/25 Avoid contact with skin and eyes

In case of contact with eyes, rinse immediately with plenty of water

and seek medical attention

Special labeling:

n.a

National Regulation for Germany:

Water pollution class: 2

--Canada--

Ingredient TSCA EC DSL NDSL Yes Yes No 4-Hydroxy-4-methylpentanepropanol Yes Yes No

2(2-Methoxymethylethoxy)-

methylethoxypropanol (25498-49-1) Yes Yes No

| Ingredient | -SARA RQ | 302- TPQ | SARA 313 List | -RCRA- RQ | CERCLA - 261.33 | TSCA 8(d) |
|---|-------------|-------------|------------------|--------------|-----------------|--------------|
| N-Methyl Pyrrolidone | No | No | Yes | No | No | No |
| 4-Hydroxy-4- methylpentanepropanol 2(2-Methoxymethylethoxy) | No | No | No | No | No | No |
| -methylethoxypropanol | No | No | No | No | No | No |

(According to ANSI Z400.1-2004)

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16. OTHER INFORMATION

HMIS: Health 1, Flammability 1, Reactivity 0

Text of risk phrases mentioned in Section 2:

Xi Irritant

36/38 Irritating to eyes and skin

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.

DISCLAIMER OF RESPONSIBILITY:

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