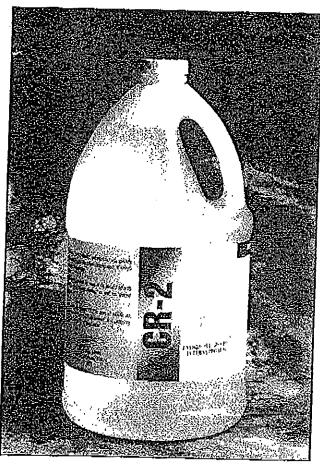


Envirosafe Solutions International, Inc.

"TARGETED TOWARDS A SAFER ENVIRONMENT"



CR-2

A USER AND ENVIRONMENTALLY SAFE, LOW PARTICULATE CLEANER

CR-2 is a "State of the Art" surfactant that was specially formulated to meet the critical cleaning needs of today's advanced technologies.

CR-2 is a replacement for some of the harmful solvents used in maintenance cleaning as well as process cleaning.

Test results have shown CR-2 to pass all mobile ion specifications for class 100 cleanrooms. It is customary to dilute CR-2 with de-ionized water.

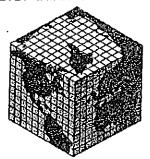
- Non-Toxic
- Non-Explosive
- Non-Hazardous
- Non-Caustic
- Non-Flammable
- Biodegradable

MOBILE ION SPECIFICATIONS

Below are the mobile ion specifications per the product CR-2. The quantitative results are calculated as parts per million relative to the weight of the sample used, for particles 0.3 microns and smaller. Various dilution scenarios are listed as it is customary to dilute CR-2 (with DI water). The "Class 100 Specs" are listed for comparison purposes only.

| Particulate | Concentrate | 1 to 20 Dilution | l to 40 Dilution | Class 100 Specs* |
|--------------------|-------------|------------------|------------------|------------------|
| Na | >2.30 ppm | >0.115 ppm | >0.058 ppm | ≥0.500 ppm |
| K | >4.60 ррт | >0.230 ppm | >0.115 ppm | ≥0.300 ppm |
| Mg | >0.02 ppm | >0.001 ppm | >0.001 ppm | ≥0.100 ppm |
| Co | >0.30 ppm | >0,002 ppm | >0.001 ppm | ≥0.100 ppm |
| (1. | >0.10 ppm | >0.005 ppm | >0.003 ppm | ≥0.200 ppm |
| PO ₄ -3 | >0.50 ppm | >0.025 ppm | >0.012 ppm | ≥0.500 ppm |
| SO. 1 | >0.70 ppm | >0.035 ppm | >0.018 ppm | ≥0.000 ppm |
| Residue | >1.63 ppm | >0.082 ppm | >0.041 ppm | |

*From Motorolo Chem Spec 11 At000901W, Issue IA



Envirosafe Solutions International, Inc.

"TARGETED TOWARDS A SAFER ENVIRONMENT"

GR-2

| CLEANROOMSGeneral HousekeepingCeilings, Walls, Floors | Dilution ratio of 1:20 (CR-2:DI water). Usage is the same as IPA/DI cleaning procedures. | | |
|---|--|----------------|--|
| CLEANROOMS • Pre-entry 3-phase wipe downs prior to entering | Dilution ratios should increase as one moves along the 3-phase wipe down process: | | |
| the cleanroom (including): | Phase | Dilution Range | |
| • Equipment | Gross | 1:1 - 1:10 | |
| ToolsWork Benches | Intermediate | 1:10 - 1:20 | |
| • Gowning Rooms | Precision | - 1:20 | |
| CLEANROOMS Tacky Mat Adhesive | Depending on severity, dilution ratios can range from 1:1 to 1:20. | | |
| ULTRASONIC CLEANING Circuit Boards | Dilution ratio 1:20 @ 60 degrees C. | | |
| ULTRASONIC CLEANING Precision Valves Precision Components Metal Cleaning, Tools, etc. | Dilution ratio range of 1:10 to 1:20. Based on application, temperatures may vary. | | |

For current price information, technical assistance and/or ordering assistance, call (602) 962-5201. We maintain a large network of distributors throughout the world.

Envirosafe Solutions International Inc.

Material Safety Data Sheet

Product Name:

CR - 2

Section I

Manufacturor's Name: Envirosafe Solutions International Inc.

Address: Post Office Box 43615

Phoenix, Arizona 85080

Telephone Number: (623) 580-4939

Date Prepared: 6-2-00

Section II: Hazardous Ingredients Identity Information

Hazardous Components OSHA PEL ACGIH TLV OTHER LIMITS * (OPTIONAL)

- Formula complies with 29 CFR 1910-1200(I) "TRADE SECRETS"

- Formula contains no components on NTP list nor TARC 14st for carcinogens

- Formula found to be: 1) Not Toxic 2) Not Corrosive 3) Not an Irritant

Section III: Physical Chemical Characteristics

Boiling Point

Approximately 220 F.

Specific Gravity (H2O = 1)

Vapor Pressure (mm HG)

N/A

Melting Point

N/A

Vapor Density (Air = 1)

Heavier than Air

Solubility in Water

Complete Appearance and odor

Light Amber - Pleasant Odor

Evap, Rate (Butyl Acetate = 1)

Slower than Ether

Ph Range # 9 - 10 (conc. Form)

Section IV: Fire and Explosion Hazard Data

Flash Point (Method Used)

N/A = Liquid Not Flammable

Flammable Limits

Non - Flammable

LEL UEL N/A

n/a

Extinguishing Media

None Required

Special Fire Fighting Procedures

None Required (Water can be used to cool containers adjacent to fire)

Unusual Fire and Explosion Hazards

Section V: Reactivity Data

Stability Unstable?

Stable? XX

Conditions to Avoid

Incompatibility (Materials to Avoid)

Strong Acids, Strong Oxidizing Agents

Hazardous Decomposition or Byproducts

Very Small (Trace) Amounts of Nitrogen Oxides,

Carbon Dioxide, Carbon Monoxide - due to biodegration

Hazardous Polymerization

May Occur?

Conditions to Avoid

None

Will Not Occur? XX

مصودر

Section VI: Health Hazard Data

Route(s) of Entry

N/A

Inhalacion: Skin?

Health Hazards (Acute and Chronic)

N/A None

N/A Ingestion? N/A

Carcinogenicity? None

NPP? None

LARC Monographs? None

OSHA Regulation? None

Signs and Symptoms of Exposure

When products is exposed to sensitive skin for a prolonged period of time a drying sensation may occur, rinse with water; apply hand lotion. Medical Conditions Generally Aggravated by Exposure

None Known

Emergency and First Aid procedures

In Conc. Form, Irritation May Occur In Some Humans If Splashed Directly In Eyes. Flush With Cold Water For 15 Minutes.

Section VII: Precautions For Safe Handling And Use

Steps To Be Taken In Case Material Is Released or Spilled

Area Will Be Extremely Slippory. Evacuate Area And Flush With Water. Waste Disposal Mothod

Dispose Of In Accordance To Federal And Local Waste Requirements

Procautions To Be Taken In Handling And Storing

Protect From Freezing - Storage Botween 40 And 100 F Is Recommended Other Precautions

If Exposed To Low Temperatures, product May Stratify.

If So, Mix before Using, Avoid Eye Contact

Section VIII: Control Measures

Respiratory Protection (specify type)

None Necessary

Vontilation? Normal

Local Exhaust?

Special?

Mechanical (general)

No Special Requirements

None

None

None

Protective Gloves

Other? Eye Protection

Recommended But Not Necessary

None Necessary Other Protective Clothing or Equipment

Apron or Boots Suggested For Excessive Splashing

Work / hygienic Practices

Normal Procedures