

MATERIAL SAFETY DATA SHEET

HYDROCREAM BASE

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DATE PREPARED: 10-10-90 BY: Patrick L. Johnson Revised 7-26-96

SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT NAME: Hydrocream Base

SYNONYMS: Water-In-Oil Emulsion.

MOLECULAR FORMULA: Mixture.

MOLECULAR WEIGHT: N/A

CHEMICAL FAMILY: Water-in-oil emulsion.

| INGREDIENT | (CAS #) | % | OSHA PEL | ACGIH TLV |
|----------------|--------------|-----|----------|----------------------------|
| Purified Water | (07752-18-5) | 55 | N/A | N/A |
| Petrolatum | (8042-47-5) | >30 | N/A | N/A |
| Mineral oil | (8042-47-5) | >10 | N/A | 5 mg/M ³ (mist) |

* Any ingredients not listed are; less than 5%, less than 1% if hazardous, and less than 0.1% if carcinogenic.

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A

VAPOR PRESSURE: N/A

MELTING POINT: N/A

VAPOR DENSITY: N/A

SPECIFIC GRAVITY: N/A
(WATER = 1)

EVAPORATION RATE: Nil
(BUTYL ACETATE = 1)

WATER SOLUBILITY: Miscible

WATER REACTIVE: No

APPEARANCE AND ODOR: Smooth, stiff, white to off-white, water-in-oil cream (emulsion) with a characteristic lanolin odor.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: As with any organic compound, this material may produce toxic carbon monoxide and/or carbon dioxide fumes if heated to decomposition as under fire conditions.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: As with any organic compound, this material may produce toxic carbon monoxide and/or carbon dioxide fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: No specific toxicity data is available for this product.

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| CARCINOGEN LISTED BY: | NTP | Yes () | No (X) |
| | IARC | Yes () | No (X) |
| | OSHA | Yes () | No (X) |
| | Other | Yes () | No (X) |

ROUTES OF ENTRY: Ingestion, absorption.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: Due to the low vapor pressure, no harmful effects or exposure symptoms expected.

EYE CONTACT: May cause slight contact irritation.

SKIN CONTACT: May cause mild irritation after sustained contact in sensitive individuals.

INGESTION: May cause mild irritation of the gastrointestinal tract and slight nausea.

CHRONIC EFFECTS OF OVEREXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Overexposure is unlikely to aggravate any existing medical conditions.

OTHER PRECAUTIONS TO CONSIDER: None known.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Due to the low vapor pressure, no harmful effects are anticipated.

EYE CONTACT: Flush with water for 15 minutes. If irritation persists or develops seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritation persists or develops seek medical attention.

INGESTION: No harmful effects expected, however, prudence would indicate that a medical professional or poison control center be contacted for assistance.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: No special respiratory protection needed under normal use conditions.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety glasses or goggles. Avoid wearing contact lenses when working with this or any chemical due to the possibility of increased severity of eye damage.

VENTILATION: No special ventilation requirements under normal use conditions.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Do not eat, drink or smoke near this material. Wash thoroughly after handling and wash any contaminated clothing before reuse.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and wash any contaminated clothing before reuse.

STORAGE PRECAUTIONS: Store in a tight container in a cool, dry, well ventilated location.

OTHER PRECAUTIONS: Any use of this product in elevated-temperature processes should be thoroughly evaluated to determine safe operating conditions. A release of hot organic vapors or mists from equipment operating at elevated temperature and pressure may result in ignition without the presence of obvious ignition sources.

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| SECTION 8 - SPILL AND DISPOSAL PROCEDURES |
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STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: In case of small spill, wipe up with an absorbent material. If spill is large or in a confined space; wear protective gear (goggles, gloves), scoop up spillage and place in a tight container and wash and ventilate spill site. Wash thoroughly or shower after handling and wash all clothing and protective gear before reuse.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

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| SECTION 9 - DISCLAIMER |
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DEFINITIONS OF ABBREVIATIONS USED:

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| ACGIH: | American Conference of Governmental Industrial Hygienists |
| CAS: | Chemical Abstract Service |
| IARC: | Internal Agency for Research on Cancer |
| IDLH: | Immediately Dangerous to Life or Health level |
| LC ₅₀ : | Median Lethal Concentration |
| LD ₅₀ : | Median Lethal Dose |
| MSHA: | Mine Safety and Health Administration |
| N/A: | Not available |
| NIOSH: | National Institute for Occupational Safety and Health |
| NTP: | National Toxicology Program |
| OSHA: | Occupational Safety and Health Administration |
| PEL: | Permissible Exposure Limit |
| STEL: | Short Term Exposure Limit |
| TLV: | Threshold Limit Value |
| TWA: | Time Weighted Average |