

MATERIAL SAFETY DATA SHEET

MSDS ID #: 100029

Date Prepared: April 26, 1996
Revision: April 27, 2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: L-9219 MAKE-UP SOLUTION **Product Code:** I0220-900-33, I0220-900-38/71002822, 71002823
Colors Covered: Colorless
Supplier Name: Matthews International Corporation **Address:** 101 Fairview Avenue
City: Pittsburgh **State/Zip:** Pennsylvania, USA, 15238
Phone: (412)665-2500 **Fax:** (412)365-2341 **24 Hour Emergency Phone:** (412)456-7499

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <input checked="" type="checkbox"/> Substance | | <input type="checkbox"/> Mixture | | | | |
|---|----------------|----------------------------------|------------|-------------------|-----------------|------------------|
| <u>Hazardous Components</u> | <u>Percent</u> | <u>CAS No.</u> | <u>PEL</u> | <u>Carcinogen</u> | <u>R-Phrase</u> | <u>S-Phrases</u> |
| Methyl Ethyl Ketone | 95-100 | 78-93-3 | 200 ppm | No | R11, R36/37 | S9, S16,S25, S33 |

3. HAZARDS IDENTIFICATION

Most Important Hazards: Flammable liquid and vapor. Irritating to the eyes and respiratory system.

Main Symptoms of Overexposure: EYES- severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage; SKIN- frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity; INHALATION- vapor concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anesthetic and may have other CNS effects. Low order of toxicity; INGESTION- Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema. HMIS: H-1, F-3, R-0

Target Organs: Eyes, Skin, Respiratory System, Central Nervous System

4. FIRST AID MEASURES

Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

Skin Contact: Immediately flush with large amounts of water, use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, including under the eyelids. Get prompt medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray, dry chemical, carbon dioxide, alcohol foam.

Specific Hazards: Flammable liquid. Can release vapors that form flammable mixtures at or above the flashpoint. Vapors may travel a considerable distance to a source of ignition and flash back.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all ignition sources.

Environmental precautions: Prevent liquid from entering sewers, watercourses or low areas.

Methods of cleaning up: Land Spill: Keep public away. Shut off source if possible to do so without hazard. Contain spilled liquid with sand or earth. Dilute contained spill with water. Recover by pumping or with a suitable absorbent. Consult an expert on disposal of recovered material. Water Spill: Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard. Hose over spill to effect dilution of water soluble material.

7. HANDLING AND STORAGE

Handling-Precautions: Avoid contact with eyes. Wash thoroughly after handling.

Safe handling Advice: Flammable liquid. Keep away from heat, sparks and open flames. This material is not a static accumulator but use proper grounding equipment.

Storage-Conditions: Keep container closed. Handle containers with care. Store in a cool, well ventilated area away from incompatible materials. Protect material from direct sunlight.

Incompatible Products: Strong oxidizing agents.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limits

Personal Protective Equipment: Eliminate all ignition sources.

Respiratory Protection: If engineering controls do not maintain concentrations below recommended exposure limits, an approved respirator should be worn. Type: organic vapor.

Hand Protection: Where prolonged or repeated skin contact may occur, impervious gloves should be worn. Recommended type: Butyl

Eye Protection: Wear safety glasses with side shields or goggles.

Skin and Body Protection: Recommended Decontamination Facilities: eye bath, safety shower, washing facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Flashpoint: -4° C (25° F)

Density: 0.806

Vapor Density: >1

Boiling Point: 78.5-81° C (175-177° F)

V.O.C.: 806 g/l

Color: Colorless

Autoignition temperature: >450° C (>842° F)

Vapor Pressure: 83 mm Hg @ 75° F

Solubility in Water: 26.3% @ 68° F

Freezing Point: -86° C (-123° F)

Evaporation rate(Butyl Acetate=1): 6.0

Odor: Ketone

pH: N/A

10. STABILITY AND REACTIVITY

Stable: Yes **Conditions to avoid:** Avoid heat, sparks and open flames.

Materials to avoid: Strong oxidizing agents

Hazardous decomposition products: No unusual

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 (rat) 1.87-6.5 g/kg; Oral LD50 (mouse) 4.5 g/kg; Inhalation LC50 (rat) ≥20,000 ppm/hour; Dermal LD50 (rabbit) 4.0 g/kg

Chronic Toxicity: There is no evidence that exposure to MEK alone causes progressive or irreversible neurotoxic effects. However, simultaneous overexposure to MEK and N-Hexane can potentiate the known irreversible effects of N-Hexane.

Sensitization: No

Specific Effects: None

12. ECOLOGICAL INFORMATION

Possible Environmental Effects: This substance is relatively volatile and will evaporate from water and soil over the course of a few days. This substance is expected to biodegrade rapidly and be "readily" biodegradable under OECD guidelines. This substance is expected to be removed in a wastewater treatment plant. Low acute toxicity to aquatic organisms is expected.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all local, state, and federal regulations. EPA hazardous waste- D001 Flammable, D035, F003

14. TRANSPORT INFORMATION

Land: (DOT)- regulated, Flammable liquid, Class 3, packaging group II, Proper Shipping Name: Methyl Ethyl Ketone, UN 1193

Inland Waterways: (AND/R)- regulated, class 3; Item 3b; Tremcard number 19

Sea: regulated, IMO class 3.2; Packing Group II, Proper Shipping Name- Methyl Ethyl Ketone, UN 1193

Air: regulated, Flammable Liquid; Class 3, Packing Group II; Proper shipping name- Methyl Ethyl Ketone, UN 1193

15. REGULATORY INFORMATION

Hazard and Safety Information: California Prop 65- listed; PA hazardous substance list- listed; WHMIS (Canada)- MEK listed- B2/D2A/D2B; IARC, NTP- not listed; SARA 313- listed; SARA 311,312- Acute health hazard, chronic health hazard, fire hazard; TSCA- listed; EINECS- listed, #201-159-0; R11- Highly Flammable, R36/37- Irritating to eyes and respiratory system; S9- Keep container in a well ventilated place, S16- Keep away from sources of ignition- No Smoking, S25- Avoid contact with eyes, S33- Take precautionary measures against static discharges

Ozone Depleting Chemicals Present: None

16. OTHER INFORMATION

Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed. The information contained herein is based upon what we believe to be reliable data. However, we make no warranty or guarantees, expressed or implied, concerning the accuracy of such information and disclaim all liability from reliance thereon. You should evaluate the information through your own sources prior to use.

Reference ISO 11014-1