

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**Product Identifier:** MERAS 5330

**Product Code:** 6128

**MERAS ENGINEERING INC**  
2401 E ORANGEBURG AVE #675  
MODESTO, CA 95355  
(415)240-4918

**24 Hr. Emergency Tel.#:** 800-262-8200

## SECTION 2 - HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture:

Skin Irritation - Category 2  
Serious Eye Damage - Category 1  
Flammable Liquids - Category 4  
Acute Toxicity - Oral Category 5  
Acute Toxicity - Dermal Category 4



**Signal Word:** DANGER

### Hazard Statements:

Causes skin irritation  
Causes serious eye irritation  
May be harmful if swallowed  
Harmful in contact with skin  
Combustible liquid

### Precautionary Statements:

Wear protective gloves/protective clothing/eye protection/face protection.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration
MORPHOLINE	110-91-8	30-40%

## SECTION 4 - FIRST-AID MEASURES

**Inhalation:** Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. If direct contact during rescue breathing poses a threat to the first aid provider, "Avoid mouth-to-mouth contact by using a barrier device."

**Skin Contact:** Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water with a flushing duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard.

**Eye Contact:** Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or into the face. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

**Most Important Symptoms and Effects, both Acute and Delayed:** Causes irritation/burns that may result in permanent impairment of vision, even blindness. Contact with skin can cause irritation. May be harmful if swallowed.

**Indication of any Immediate Medical Attention and Special Treatment Needed:** Treat symptomatically

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### SECTION 5 - FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use water spray, powder, foam, carbon dioxide.

**Special hazards arising from the substance of mixture:** Emits toxic fumes under fire conditions.

**Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012):** Flammable liquid - Category 4

**Hazardous Combustion Products:** Toxic nitrogen oxides, Carbon oxides.

**Special protective equipment and precautions for firefighters:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Wear appropriate personal protective equipment as specified in Section 8. Keep unnecessary and unprotected personnel from entering.

**Methods and materials for containment and cleaning up:** Contain and recover liquid when possible. Do not let product enter drains. Residues from spills can be absorbed with dry earth, sand or other non-combustible material and disposed of in appropriate container.

**Special spill response procedures:** Prevent from entering sewers, waterways, or low areas.

### SECTION 7 - HANDLING AND STORAGE

**Precautions for Safe Handling:** Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.

**Conditions for Safe Storage:** Keep product in tightly closed container when not in use. Do not drop, roll, or skid drum. Store in a cool, dry, well-ventilated area away from heat or open flame.

**Incompatible Materials:** Avoid acids and/or strong oxidizers when using or storing this product.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation and engineering measures:** Forced air, local exhaust, or open air is adequate.

**Respiratory Protection:** In case of confined spaces or high levels encountered in the air, wear self contained breathing apparatus.

**Skin Protection:** Wear chemical resistant gloves and chemical resistant garments when handling, wash garments before re-use.

**Eye/Face Protection:** Wear safety glasses, goggles and/or face shield to prevent eye contact.

**Other Protective Equipment:** Eye wash facility and emergency shower should be in close proximity.

**General Hygiene Conditions:** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless clear liquid.

**Odor:** Pungent odor.

**pH:** 9.5-10.5

**Melting/Freezing point:** No information available.

**Initial boiling point and boiling range:** No information available.

**Flash Point:** Flammable Liquids - Category 4

**Flammability (solid, gas):** Flammable Liquids - Category 4

**Lower flammable limit (% by vol.):** No information available.

**Upper flammable limit (% by vol.):** No information available.

**Specific gravity:** 1.02 g/mL

**Solubility in water:** Complete

**Auto ignition Temperature:** No information available.

**Decomposition temperature:** No information available.

**Viscosity:** 10-25 cSt at 20°C / 68°F

### SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** Strong bases/acids/oxidizing agents

**Chemical Stability:** Stable under normal conditions

**Possibility of Hazardous Reactions:** May react with incompatible materials

**Conditions to Avoid:** Incompatible materials and extreme temperatures

**Incompatible Materials:** Avoid acids or strong oxidizers when using or storing this product.

**Hazardous Decomposition Products:** Carbon oxides and nitrogen oxides

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### SECTION 11 - TOXICOLOGICAL INFORMATION

**Informaiton on likely routes of exposure:**

Routes of entry - inhalation: YES

Routes of entry - skin & eye: YES

Routes of entry - ingestion: YES

Routes of entry - skin absorption: YES

**Potential Health Effects:****Signs and symptoms of short term (acute) exposure:**

**Inhalation:** Product is irritating to the nose, throat and respiratory tract and may cause sore throat, coughing, shortness of breath and delayed pulmonary edema.

**Ingestion:** May cause nausea, vomiting, abdominal pain, gastrointestinal tract burns, gastrointestinal upset and/or diarrhea.

**Skin:** May cause skin irritation including redness, edema, swelling, rash, scaling or blistering, drying and/or through the skin with possible systemic effects.

**Eye:** Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

**Potential Chronic Health Effects:**

**Mutagenicity:** May have mutagenic effects.

**Carcinogenicity:** This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACG.

**Reproductive effects:** No known reproductive effects in humans or animals.

**Sensitization to material:** Not a known sensitizer in humans or animals.

**Specific target organ effects:** May have specific target organ effects on liver and kidneys.

**Medical conditions aggravated by overexposure:** No information available

**Toxicological data:** The calculated ATE values for this mixture are:

ATE oral = 4142 mg/kg (rat)

ATE dermal = 1428 mg/kg (rabbit)

ATE inhalation = > 20 mg/L

### SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** Not expected to be toxic to the environment.

**Persistence and degradability:** Not expected to persist. Readily biodegradable.

**Bioaccumulation potential:** Not expected to bioaccumulate.

**Mobility in soil:** No information available.

### SECTION 13 - DISPOSAL CONSIDERATIONS

**Handling for disposal:** Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Empty residue from containers, rinse container well.

**Method of disposal:** Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**RCRA:** Not a listed RCRA hazardous waste.

### SECTION 14 - TRANSPORTATION INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Please note the GHS and DOT Standarts are NOT identical and therefore can have varying classifications

**US 49 CFR/DOT/IATA/IMDG Information:**

UN No.: 1760

UN Proper Shipping Name: Corrosive liquid, n.o.s.

Transportation hazard class(es): 8

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Packing Group: III

**Environmental hazards:** Not a Marine Pollutant

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

**TSCA information:** All components are listed on the TSCA inventory.

**US CERCLA reportable quantity (RQ):** Non Regulated Material.

**SARA Title III:** Acute Health Hazard, Chronic Health Hazard, Fire Hazard.

### SECTION 16 - OTHER INFORMATION

**Legend:**

**SARA:** The Superfund Amendments and Reauthorization Act

**RCRA:** Resource Conservation and Recovery Act

**TSCA:** Toxic Substances Control Act

**CFR:** Code of Federal Regulations

**DOT:** Department of Transportation

**ATE:** Acute Toxicity Estimate

**Preparation date:** 2/6/2013