

MATERIAL SAFETY DATA SHEET



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I. CHEMICAL PRODUCT IDENTIFICATION

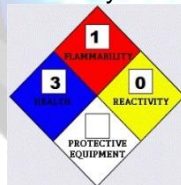
Product Name: Imperia

HMIS Ratings:

Health: Minimal(0)
 Flammability: Minimal(0)
 Instability/Reactivity: Minimal(0)

NFPA Ratings:

Health: Slight(3)
 Flammability: Minimal(1)
 Instability/Reactivity: Minimal(0)



Other:

CHEMICAL FAMILY: ALKALINITY
 APPLICATION: LIQUID
 CAS NO: MIXTURE

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
SODIUM HYDROXIDE	1310-73-2	1-10	N/A	N/A			
Notes							
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1-5	N/A	N/A			
Notes							
SODIUM DODECYLBENZENE SULFONATE	25155-30-0	1-5	N/A	N/A			
Notes							
SODIUM XYLENE SULFONATE	1300-72-7	1-5	N/A	N/A			
Notes							
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	<3	N/A	N/A			

NOTES ALCOHOLS, C9-11, ETHOXLATED	68439-46-3	<3	N/A	N/A
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III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

- Eyes:** CONTACT WITH EYES WILL CAUSE IRRITATION.
- Skin:** SKIN CONTACT CAN CAUSE IRRITATION WITH POSSIBLE REDNESS. SEVERITY OF ACTION IS HIGHLY DEPENDENT ON CONTACT TIME.
- Ingestion:** IF SWALLOWED, THIS PRODUCT MAY CAUSE SEVERE IRRITATION OR DAMAGE OF MUCOSAL LININGS OF THE MOUTH, THROAT, ESOPHAGUS OR STOMACH.

Signs and Symptoms of

Exposure:

Other:

STATEMENT OF HAZARDS: WARNING: CAUSES EYE AND SKIN IRRITATION. PRIMARY ROUTE OF EXPOSURE: SKIN AND EYE CONTACT ARE THE PRINCIPAL ROUTES OF EXPOSURE TO THIS PRODUCT.

CARCINOGENICITY

IARC: NO

NTP - NO

OSHA - NO

ACGIH - NO

IV. FIRST AID MEASURES

- Eyes:** IMMEDIATE FIRST AID IS REQUIRED TO PREVENT EYE DAMAGE. FLUSH IMMEDIATELY WITH WATER AND REMOVE CONTACT LENSES, IF APPLICABLE. THEN FLUSH WITH LARGE QUANTITIES OF RUNNING WATER FOR 15 MINUTES. HOLD EYELIDS APART DURING FLUSHING TO ENSURE COMPLETE RINSING OF ENTIRE SURFACE OF EYE AND LIDS WITH WATER. GET MEDICAL ATTENTION IMMEDIATELY. CONTINUE FLUSHING WITH WATER IF PHYSICIAN IS NOT IMMEDIATELY AVAILABLE.
- Skin:** REMOVE CONTAMINATED SHOES AND CLOTHING. WASH WITH SOAP AND WATER FOR 15 MINUTES. WASH CONTAMINATED CLOTHING BEFORE REUSE.
- Ingestion:** DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. THEN GIVE 1-2 GLASSES OF WATER AND CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO REDUCE RISK OF ASPIRATION. GIVE WATER AGAIN. NEVER GIVE ANYTHING BY MOUTH TO A PERSON WHO IS UNCONSCIOUS OR CONVULSING. GET MEDICAL ATTENTION IMMEDIATELY.

V. FIRE FIGHTING MEASURES

- Flash Point:** Closed Cup:>93.3°C (>199.9°F)
- Lower Flammability Limit:** NOT APPLICABLE
- Upper Flammability Limit:** NOT APPLICABLE
- Fire Fighting Procedures:** USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE. DO NOT RELEASE RUNOFF FROM FIRE TO DRAINS OR WATERCOURSES.
- Unusual Fire or Explosion** IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST. MAY EMIT TOXIC FUMES UNDER FIRE

Hazards: CONDITIONS.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: CAUTION:
IF SPILLED, FLOORS MAY BE EXTREMELY SLIPPERY. WEAR APPROPRIATE PROTECTIVE GEAR TO AVOID SKIN OR EYE CONTACT. DIKE AND CONTAIN SPILL WITH INERT MATERIAL (SAND, CLAY). TRANSFER LIQUID AND SOLIDS TO SEPARATE CONTAINERS FOR RECOVERY OR PROPER DISPOSAL. KEEP SPILL OUT OF STORM SEWERS AND OPEN BODIES OF WATER. AFTER REMOVAL, FLUSH AREA WITH WATER. FOLLOW GOOD INDUSTRIAL HYGIENE PRACTICES. WASH THOROUGHLY AFTER CLEAN UP. IF UNCERTAIN ABOUT PROPER DISPOSAL, CONTACT YOUR LOCAL WASTE DISPOSAL PROVIDER OR THE REGIONAL OFFICE OF THE ENVIRONMENTAL PROTECTION AGENCY FOR GUIDANCE.

VII. HANDLING AND STORAGE

Other: HANDLING: PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT BREATHE VAPOR OR MIST. USE WITH ADEQUATE VENTILATION. DO NOT INGEST. DO NOT REUSE CONTAINER. WASH THOROUGHLY AFTER HANDLING. OBSERVE LABEL PRECAUTIONS.
STORAGE: STORE IN ORIGINAL CONTAINER IN A COOL, DRY, WELL-VENTILATED AREA. STORE AWAY FROM FOOD OR FEED. CONTAINERS SHOULD BE KEPT TIGHTLY CLOSED WHEN NOT IN USE. KEEP IN AN AREA INACCESSIBLE TO CHILDREN.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: CHEMICAL RESISTANT GOGGLES OR FACE SHIELD ARE RECOMMENDED.

Skin: GLOVES: USE WATER IMPERVIOUS GLOVES, SUCH AS LATEX, RUBBER OR NEOPRENE RUBBER.
PROTECTIVE CLOTHING (LONG SLEEVES, PANTS), EYEWASH, SAFETY SHOWER ARE ALWAYS ADVISABLE WHEN WORKING WITH CHEMICALS.

Respiratory: USE WITH ADEQUATE VENTILATION. PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE.

Personal Protection:



IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: PURPLE
Boiling Point: 98.9°C (210°F)
Freezing Point: 32° F
pH: 13.0-14.0
Solubility in Water: SOLUBLE
Specific Gravity: 1.6
Vapor Pressure: NOT DETERMINED
Vapor Density: >1 (AIR=1)
Physical State: LIQUID

Volatile Content: 42 (g/l), 0.35 lbs/gal (3.98%)

Other: EVAPORATION RATE: SAME AS WATER

X. STABILITY AND REACTIVITY

Stability: THIS PRODUCT IS STABLE AT AMBIENT TEMPERATURES AND ATMOSPHERIC PRESSURES. IT IS NOT SELF-REACTIVE AND HAS A SHELF LIFE OF AT LEAST ONE YEAR UNDER SEALED CONDITIONS. CONDITIONS TO AVOID ARE TEMPERATURES ABOVE 130°F OR BELOW 32°F. DO NOT MIX WITH OTHER CHEMICALS. HAZARDOUS CONDITIONS MAY ARISE FROM IMPROPER MIXING OF CHEMICALS.

Hazardous Polymerization: WILL NOT OCCUR

Hazardous Decomposition Products: CARBON OXIDES (CO, CO₂)

Conditions To Avoid: NONE

Other: DANGEROUS REACTIONS: MAY REACT WITH STRONG BASES TO GIVE EXOTHERMIC CONDITIONS.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data: THIS PRODUCT HAS NOT BEEN EVALUATED FOR ITS ACUTE TOXICOLOGY PROFILE.

Component Toxicology Information: THIS PRODUCT HAS NOT BEEN EVALUATED FOR ITS CHRONIC TOXICOLOGY PROFILE.

Other: CARCINOGENICITY:
THIS PRODUCT DOES CONTAIN A LISTED CARCINOGEN FROM NTP, ACGIH OR IARC. HOWEVER, THIS PRODUCT CONTAINS NO RESPIRABLE MATERIAL.
IRRITATION:
THIS PRODUCT CAN BE EXPECTED TO BE A SKIN AND EYE IRRITANT. NO SKIN SENSITIZATION DATA IS CURRENTLY AVAILABLE.

XII. ECOLOGICAL INFORMATION

Environmental Effects: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR

REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

Other: NOTE: STATE AND LOCAL REGULATIONS MAY BE MORE STRINGENT THAN FEDERAL REGULATIONS.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, NOS (SODIUM HYDROXIDE)
D.O.T. Hazard Class:



8

Other: NOTE: DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

XV. REGULATORY INFORMATION

TSCA Status: ALL OF THE COMPONENTS INTENTIONALLY ADDED TO THIS PRODUCT ARE LISTED ON THE ON THE U.S. EPA TSCA INVENTORY.

EPA Sara Title III Chemical Listings: SECTION 302:
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO SARA 302 REPORTING: NONE
SECTION 311/312:
CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.
CLEAN WATER ACT (CWA) 311: SODIUM HYDROXIDE; SODIUM DODECYLBENZENE SULFONATE
CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: DIETHYLENE GLYCOL MONOBUTYL ETHER

CALIFORNIA: NO PRODUCTS WERE FOUND.

CANADA: CLASS D-2B: MATERIAL CAUSING OTHER TOXIC EFFECTS (TOXIC)

**XVI. OTHER INFORMATION
WARRANTY INFORMATION**

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

