

Material Safety Data Sheet

Date of Preparation: 05/03

SURGE

Revision: 10/16/14

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: SURGE

Chemical Formula:

CAS Number:

Other Designations:

General Use:

Manufacturer: MIRANDY PRODUCTS, LLC., 1078 GRAND AVENUE, SOUTH HEMPSTEAD, NY
11550 (516) 489-6800

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☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
POTASSIUM HYROXIDE	1310-58-3	20-30

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
POTASSIUM HYROXIDE	2mg/m3	2mg/m3					

Toxicity Data:

Section 3 - Physical and Chemical Properties

Physical State:

Appearance and Odor: THIN, CLEAR AMBER
LIQUID, ODORLESS

Odor Threshold:

Vapor Pressure: NA

Vapor Density (Air=1): NA

Formula Weight: 10.3#

Density:

Specific Gravity (H₂O=1, at 4 °C): 1.24

pH: GREATER THAN 13

Water Solubility: COMPLETE

Other Solubilities:

Boiling Point: COMPARABLE TO WATER

Freezing/Melting Point: NA

Viscosity:

Refractive Index:

Surface Tension:

% Volatile:

Evaporation Rate: SLOWER

Volatile by Volume: 75%

Section 4 - Fire-Fighting Measures

Flash Point:

Flash Point Method: NONE

Burning Rate:

Autoignition Temperature:

LEL: NA

UEL: NA

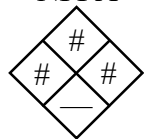
Flammability Classification:

Extinguishing Media: WATER FOG, FOAM, GAS (CO₂/HALON), DRY CHEMICAL, OTHER

Unusual Fire or Explosion Hazards: PRODUCT MAY REACT WITH SOME METALS, SUCH AS ALUMINUM, TIN,
ZINC TO PRODUCE EXPLOSIVE AND FLAMMABLE HYDROGEN GAS.

Hazardous Combustion Products: NONE

NFPA



Fire-Fighting Instructions: IF POSSIBLE, REMOVE CONTAINERS FROM FIRE AREA AND KEEP COOL. WEAR PROTECTIVE CLOTHING, EYE, FACE AND SKIN PROTECTION. BE CAREFUL OF SPRAYING WATER DIRECTLY ON PRODUCT. IT MAY SPATTER AND BURN EXPOSED SKIN.

Section 5 - Stability and Reactivity

Stability: STABLE.

Polymerization: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

Chemical Incompatibilities:

Conditions to Avoid: DO NOT STORE IN METAL CONTAINERS.

Materials to Avoid: DO NOT MIX WITH OTHER CHEMICALS. EXTREME HEAT CAN BE GENERATED UPON CONTACT WITH ACIDS AND MANY METALS, ETC.

Hazardous Decomposition Products: NONE

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: INHALATION AND SKIN ABSORPTION.

Target Organs:

Acute Effects: CORROSIVE: CAUSES SEVERE BURNS TO ALL BODY TISSUES. DO NOT GET IN EYES, ON SKIN OR CLOTHING. CAN BE FATAL IF SWALLOWED.

Inhalation:

Eye:

Skin:

Ingestion:

Carcinogenicity:

Medical Conditions Aggravated by Long-Term Exposure:

Chronic Effects: PROLONGED INHALATION OF VAPOR OR MIST CAN CAUSE BURNS OF THE RESPIRATORY TRACT.

Emergency and First Aid Procedures

Inhalation: REMOVE TO FRESH AIR, IF BREATHING IS DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION.

Eye Contact: IMMEDIATELY FLUSH THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, HOLDING LIDS APART. GET IMMEDIATE MEDICAL ATTENTION.

Skin Contact: SEE "EYES". REMOVE CLOTHING IF CONTAMINATED.

Ingestion: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER IF PERSON IS CONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians:

Special Precautions/Procedures:

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures: IF POSSIBLE, NEUTRALIZE WITH DILUTE ACID, PREFERABLY ACETIC (VINEGAR). RINSE WITH WATER OR ABSORB WITH FLOOR ABSORBENT, SAWDUST OR RAGS. AVOID CONTACT WITH EYES, SKIN OR CLOTHING.

Small Spills:

Large Spills

Containment:

Cleanup:

Regulatory Requirements:

Disposal: DISPOSE OF ACCORDING TO LOCAL REGULATIONS FOR HAZARDOUS WASTE.

Disposal Regulatory Requirements:

Container Cleaning and Disposal:

Ecological Information:

Precautions for Storing and Handling: STORE IN A COOL AREA. KEEP CONTAINER TIGHTLY SEALED. PRODUCT IS CORROSIVE. DO NOT GET ON SKIN, EYES OR CLOTHING. IF SPILLED ON CLOTHING, REMOVE CLOTHING AND FLUSH OFF EXPOSED SKIN WITH WATER. DO NOT TAKE INTERNALLY. USE WITH ADEQUATE VENTILATION.

Other Precautions: AVOID PROLONGED BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING. DO NOT TRANSFER TO METAL CONTAINERS. AVOID CONTACT WITH OTHER CHEMICALS. WEAR EYE AND SKIN PROTECTION. KEEP OUT OF REACH OF CHILDREN.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: LOCAL EXHAUST REQUIRED.

Administrative Controls:

Respiratory Protection: NONE REQUIRED.

Protective Clothing/Equipment: WEAR RUBBER GLOVES. WEAR SAFETY GOGGLES OR GLASSES. WEAR RUBBER APRON, CLEMICAL RESISTANT SHOES.

Safety Stations:

Contaminated Equipment:

Comments: