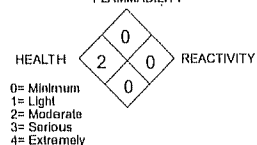




J. WALTER INC.
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www.walter.com
EMERGENCY NUMBER: INFOTRAC 1-800-535-5053

NFPA Hazard Identification

FLAMMABILITY



MATERIAL SAFETY DATA SHEET M.S.D.S. No.: S-02E

SECTION 1 & 2 - Product & Preparation Information

TRADE NAME(S) Surfox-M, Marking Electrolyte	PRODUCT NAME(S) Surfox-M, Marking Electrolyte
PREPARED BY Product Manager	ORDER NO. 54-B 053
TELEPHONE # (860) 724-0321 DATE March 12, 2002	WHMIS CLASSIFICATION D1B, D2A
THIS IS A CONTROLLED PRODUCT UNDER WHMIS No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>	

SECTION 3 - Hazardous Ingredients

CHEMICAL IDENTITY	% BY WEIGHT	C.A.S. Number	LD ₅₀ RAT	LC ₅₀ RAT
Nickel Nitrate	5-10	13478-00-7	N/E	N/E
Nickel Chloride	1-5	7718-54-9	N/E	N/E

SECTION 4 - Physical Data

PHYSICAL STATE Liquid	ODOUR & APPEARANCE Odourless, green	ODOUR THRESHOLD N/E
pH 2	BOILING POINT (°C) >100°C	FREEZING POINT (°C) N/E
SPECIFIC GRAVITY 1.072	VAPOUR PRESSURE N/E	VAPOUR DENSITY N/E
EVAPORATION RATE N/E		SOLUBILITY IN WATER Soluble

SECTION 5 - Fire or Explosion Hazards

FLAMMABILITY No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Conditions None	HAZARDOUS COMBUSTION PRODUCTS Toxic gas may be produced
EXTINGUISHING MEDIA Water or other	SENSITIVITY TO MECH. IMPACT OR STATIC DISCHARGE No
FLASHPOINT (C, Method) N/A	AUTO IGNITION TEMPERATURE (C) N/A
FLAMMABLE LIMITS (%) UPPER N/E LOWER N/E	

SECTION 6 - Toxicological Data

ROUTE OF ENTRY <input checked="" type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Skin Absorption <input type="checkbox"/> Eye Contact <input type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion	ACUTE EXPOSURE EFFECTS Contact with eyes, skin and mucosal tissue could cause irritation.	EXPOSURE LIMITS N/E
CHRONIC EXPOSURE EFFECTS	CARCINOGENICITY No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>	MUTAGENICITY No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>
	REPRODUCTIVE TOXICITY No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>	TERATOGENICITY No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>
	SYNERGISTIC EFFECTS No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>	

IF YES TO ANY ABOVE, SPECIFY: Exposure to dust or mists of nickle compounds can increase risk of lung cancer.

SECTION 7 - Reactivity Data

CHEMICAL STABILITY No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Conditions None	REACTIVITY CONDITIONS Heat
INCOMPATIBLE SUBSTANCES Strong Bases	HAZARDOUS DECOMPOSITION PRODUCTS None

SECTION 8 - Preventive Measures

PROTECTIVE EQUIPMENT <input checked="" type="checkbox"/> Eyewear <input checked="" type="checkbox"/> Clothing <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Other	ENGINEERING CONTROLS None
HANDLING PROCEDURES Keep containers tightly closed.	HANDLING EQUIPMENT None
WASTE DISPOSAL METHODS Eliminate while respectation municipal, provincial and federal regulations.	LEAK/SPILL PROCEDURES Soak up with absorbent material. Rinse small amounts with quantities of water. Neutralise with lime.
STORAGE REQUIREMENTS Protect from freezing. Min. temp. 0°C - Max. 50°	SPECIAL SHIPPING INFORMATION Not controlled according to TDG

SECTION 9 - First Aid Measures

SKIN CONTACT Rinse with soap and water for at least 15 minutes
EYE CONTACT Rinse eyes thoroughly with water for at least 15 minutes, consult physician if needed.
INHALATION Bring the victim to fresh air.
INGESTION Rinse out mouth with water and give plenty of water to drink. Induce vomitting. Consult physician if needed.
OTHER Change saturated clothing.

N/A - Not Applicable

N/E - Not Established

This data is offered in good faith as typical values and not as a product specification. No warranty, either express 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.