Diamond Shamrock Chemical Company
DIAMOND SHAMROCK CORPORATION
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MATERIAL SAFETY DATA SHEET

Similar To: United States Department of Labor
Wage and Labor Standards Administration
Bureau of Labor Standards (Form LSD 0054)

CHEMICAL NAME (In Full)	PRODUCT NAME
Sodium Bichromate Dihydrate	Technical Sodium Bichromate Granular

FORMULA

$Na_2Cr_2O_7 \cdot 2H_2O$

GENERAL INFORMATION

Sodium bichromate is commercially available as a concentrated liquid and as a granular product. Sodium bichromate is widely used in chemical and allied industries. Sodium bichromate is unregulated by the Interstate Commerce Commission. It is mildly oxidi ing in character but becomes a strong oxidizer in concentrated solutions in presence of str acids. Sodium bichromate is noncorrosive to metal, is noncombustible but may react slowly with certain organic material such as paper and clothing fibers.

HAZARD CLASSIFICATION

I. IMPORTANT PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid or Solid Crystals	FLAMMABLE LIMITS	----	VAPOR PRESSURE	----
COLOR	Liquid - dark red Crystals - orange-red	LIGHT SENSITIVITY	----	TEMP. MMHg.	----
ODOR	None	SOLUBILITY (20°C)	70% by weight		
FLASH POINT (Closed Cup)	----	SPECIFIC GRAVITY (H_2O = 1.0)	1.706 for 70% solution		
BOILING POINT	400°C decomposes	THRESHOLD LIMIT VALUE (AIR BORNE)	0.1 mg/cubic meter as CrO_3	% VOLATILE (Volume)	----
AUTOIGNITION TEMPERATURE	----	VAPOR DENSITY AIR = 1.0	----	EVAPORATION RATE (Ether = 1.0)	----
CRITICAL TEMP.	----	VISCOSITY 20°C	10 centipoises for 70% solution	REACTIVITY	Mildly oxidizing in solution but becomes stron oxidizing in strong acid solution.
DENSITY AT 20°C	2.35 for solid	MINIMAL LETHAL DOSE	Poisonous - see section on health hazards p. 2.		
HEAT OF COMBUSTION	Noncombustible	LD50 TEST	----		

II. CHEMICAL REACTIVITY DATA

STABLE [X] Yes [ ] No SELFPOLYMERIZE [ ] Yes [X] No

HAZARDOUS DECOMPOSITION PRODUCTS

None

AVOID CONTACTS WITH THESE MATERIALS

Strong acids and oxidizable materials if in presence of acids.

CONDITIONS TO AVOID

Avoid contact with eyes or skin. Avoid breathing vapors or dust. Do not take internally. Avoid storage in humid air.