

Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with

OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

Occupational Safety and Health
Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*
CAT # 2579 SUPER DRI AID
CAT # 2836 MINI SUPER DRI-AID

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name HAL-HEN COMPANY, INC.	Emergency Telephone Number
Address <i>(Number, Street, City, State, and ZIP Code)</i> 180 ATLANTIC AVENUE GARDEN CITY PARK, NY 11040	Telephone Number for Information (516) 294-3200
	Date Prepared December 2010
	Signature of Preparer <i>(optional)</i>

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% <i>(optional)</i>
Molecular Sieve (type 4A)				
Material (CAS NO.)				
Sodium or Potassium Oxide (1313-59-3)	<30%	None Est.	None Est.	
Silicon Oxide (7631-86-9)	<50%	10mg/m3 5mg/m3	Total Dust (20mp pcf) Respirable dust None Currently est.	
Aluminum Oxide (1344-28-1)	<40%	Nuisance particles (nuisance dust) 10mg/m3 total dust- (15mgm3 tot. dust) 5mg/m3 respirable dust-(5mg/m3 tot.dust)		
Cobalt Chloride (7646-79-9) Classification: T, N	025%-1%	0.025mg/m3	0.025mg/m3 DSCL (EEC) R-49-60-51/53	

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	
		1.1 (piece) 2.0 (crystal)	

Vapor Pressure (mm Hg.) N/A		Melting Point N/A	
Vapor Density (AIR = 1) N/A		Evaporation Rate (Butyl Acetate = 1) N/A	
Solubility in Water N/A			
Appearance and Odor: Blue and white/tan beads; odorless			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL	UEL
Extinguishing Media N/A			
Special Fire Fighting Procedures N/A			
Unusual Fire and Explosion Hazards: In their fresh unused state, molecular sieves are not flammable. When exposed to water however, they can become quite hot. When first wetted they can heat to the boiling point of water. Flooding will reduce temp to safe levels.			

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid: Moisture (water) can cause a rise in temperature which may result in a burn.
	Stable	X	
Incompatibility (<i>Materials to Avoid</i>) Sudden Contact with concentrations of chemicals having high heats of absorption such as olafina, HCL, etc.			
Hazardous Decomposition or Byproducts: Chlorides emitted if heated to decomposition			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	None currently known

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? May cause irritation to noses and throat.	Skin? Causes irritation, redness	Ingestion? Toxic, nausea, vomiting
Health Hazards (<i>Acute and Chronic</i>) Prolonged inhalation may cause lung damage			
Carcinogenicity: Shown to cause cancer in lab animals.	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure: Breathing of dust may aggravate and inflammatory or fibroid pulmonary disease, irritation, and excess redness of the eyes.			
Medical Conditions Generally Aggravated by Exposure: Breathing or Pulmonary restriction			
Emergency and First Aid Procedures: Swallowed: drink 2 large cups of water and induce vomiting and seek medical assistance. Skin Contact: Wash with soap and water. Inhalation: Remove to fresh air Eye Contact: Flush eyes with water for 15 minutes			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Sweep or vacuum the spill area. Avoid raising dust
Waste Disposal Method: Dispose of container and unused material in accordance with federal state and local requirements.

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) OSHA 29 CFR 1910.134 and approved by HOISH/HSMA			
Ventilation	Local Exhaust: As appropriate to minimize dust.	Special	N/A
	Mechanical (<i>General</i>) N/A	Other	N/A
Protective Gloves: Use gloves impermeable to dust		Eye Protection: Safety goggles or glasses	
Other Protective Clothing or Equipment: Eyewash fountain			
Work/Hygienic Practices: Always be aware of the possible side effects of chemical reactions			