

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): Orbit Product Class: Water-based carpet and hard surface cleaner. Emergency Telephone Number: 800-255-3924 Telephone Number for Information: 800-950-1975 Distributed By: Dalco 300 5th Ave NW New Brighton, Minnesota 55112		
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS		
Hazardous Components (Specific Chemical Identity):		
Chemical	Common Name(s)	%
A	Citric Acid CAS #77-92-9	5 - 15
B	Phosphoric Acid CAS #7664-38-2	1 - 5
C	Sodium Alkyl Napthalene Sulfonate CAS # (Mixture)	1 - 5
D	Water CAS #7732-18-5	60 - 100
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: Orange liquid, citrus fresh fragrance. Primary Hazards: Corrosive		
Potential Health Hazards		
Route(s) of Entry:	Skin Absorption:	Ingestion: X Inhalation:
Eye: May cause burns on contact.	Skin: May cause burns on contact.	Ingestion: Harmful if swallowed.
Inhalation: No hazardous vapors.	Signs and Symptoms of Exposure: Irritation on direct contact.	Carcinogenicity: NTP? No IARC Monographs? No
Target Organ (s): No additional data	Medical Conditions Generally Aggravated by Exposure: N. Av.	Health Hazards, Chronic: N. Av.
SECTION IV - FIRST AID MEASURES		
Emergency and First Aid Procedures:		
If Swallowed: Do not induce vomiting. If a person can swallow, give several glasses of water. Obtain immediate medical attention. Eye Contact: Flush eyes with running water for at least 15 minutes. Obtain immediate medical attention. Skin Contact: Flush with cool water. Remove and wash contaminated clothing before reuse. For Inhalation: Remove to fresh air. If irritation persists, get medical attention.		
Sources Used: Raw material data, general toxicology from the trade for similar products.		
SECTION V - FIRE FIGHTING MEASURES		
Flammability: No	Autoignition Temperature: N. Av.	
Flash Point (method used): None	LEL	UEL
Flammable Limits: N. Av.		
Extinguishing Media N. Av.	Water?	Foam?
	Alcohol Foam?	CO ₂ ?
	Vaporizing Liquid?	Other?
Special Fire Fighting Procedures: N. Av.	Water Fog?	Dry Chemical?
Unusual Fire and Explosion Hazards: N. Av.		
TDG Flammability Classification: Non-flammable		
Sensitivity to Mechanical Impact: None		
Sensitivity to Static Discharge: None		
SECTION VI - ACCIDENTAL RELEASE MEASURES		
Steps to be Taken in Case Material is Released or Spilled:		
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.		
SECTION VII - HANDLING AND STORAGE		
Precautions to be Taken in Handling and Storing:		
Normal care in handling and storage.		
Other Precautions: Keep out of reach of children. Keep from freezing.		
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION		
Respiratory Protection (Specify Types): Not required		
Ventilation:	Local Exhaust: Not required	Special: Not required
	Mechanical (General): Normal good ventilation sufficient.	
	Other: Not required	
Protective Gloves: Natural rubber or synthetic.	Eye Protection: Approved safety goggles or glasses.	Footwear: Not required
Other Protective Clothing or Equipment: Not required	Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.	

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: Approximately 212°F	pH: 2-3 (1% solution)				
Specific Gravity (H2O) = 1: 1.07	% Volatile: >80%				
Vapor Density (Air = 1): < 1	Odor Threshold: N. Av.				
Evaporation Rate (Butyl Acetate = 1): N. Av.	Oil/Water Distribution				
Solubility in Water: Complete	Coefficient: N. Av.				
Vapor Pressure (MM HG): N. Av.					
Melting Point: N. Av.					
SECTION X - STABILITY AND REACTIVITY					
Stability: Unstable: Stable: X					
Conditions to Avoid: Do not mix with any other chemicals, especially alkaline, bleach or ammonia cleaners. Avoid contact with alkaline materials & reactive metals.					
Incompatibility (materials to avoid): Mild steel and aluminum may react to produce hydrogen gas that can produce an explosive in confined vessels. Reacts violently with strong bases. Do not use on marble, terrazzo or natural stone.					
Hazardous Decomposition or By-products: N. Av.					
Hazardous Polymerization: May occur: Will not occur: X					
Conditions to Avoid: N. Av.					
SECTION XI - TOXICOLOGICAL INFORMATION					
Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	None	None	N. Av.	11.7 gm/kg (rat, oral)	N. Av.
B	1 mg/m3	1 mg/m3	N. Av.	4,400 mg/kg (rat, oral)	7.7 mg/L (rat, 4 hrs.)
C	None	None	N. Av.	3,400 mg/kg (rat, oral)	N. Av.
D	None	None	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: No					
Toxicologically Synergistic Products: N. Av.					
SECTION XII - ECOLOGICAL INFORMATION					
Ecotoxicological Information: N. Av.					
Chemical Fate Information: N. Av.					
SECTION XIII - DISPOSAL CONSIDERATIONS					
Waste Disposal Method:					
Neutralize and dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.					
RCRA Hazard Class: None					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification: Corrosive Liquid, Acidic Inorganic, N.O.S. (Containing Phosphoric Acid), Class 8					
UN Number: UN3264					
Packing Group: II					
SECTION XV - PREPARATION DATA					
Prepared By: Mike Elms					
Telephone Number: 651-481-1900					
Date: 1/02					
SECTION XVI - REGULATORY INFORMATION					
US Federal Regulations					
TSCA Status: All ingredients listed.					
CERCLA Reportable Quality: 5,000 Pounds (Phosphoric Acid)					
SARA Title III					
Section 302 Extremely Hazardous Chemicals: None					
Section 311/312 Hazard Category: Immediate health hazard					
Section 313 Toxic Chemicals: Phosphoric Acid					
State Regulations					
NOTICE STATE OF CALIFORNIA					
Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.					
International Regulations					
WHMIS Controlled Product Hazard Class: E					
SECTION XVII - OTHER INFORMATION					
None					
N. Av. - Not Applicable; N. Av. - Not Available					

NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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