

NORDIC POWER DESICCANT – MAGNUM and PICCOLO Section 1 : Chemical Product and Company Identification

Product Identification	: Humidity Absorbent
Distributor & Manufacturer	: Hung Phat Viet Ltd, Co.
Address	: 12/14C Man Thien Street, Tang Nhon Phu A Ward
	District 9
	Ho Chi Minh City
	Vietnam
Phone	: +84 8 3951 5736
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Trade Name	: Nordic Power Desiccant Magnum
Chemical Family	: Salt, Polyester, Polyethylene, Starch

Section 2 : Composition / Information of Ingredients

Chemical Name	CAS #
Polyester bag, Polyethylene	9002-88-4
bag	
Calcium Chloride	10043-52-4
Modified Starch	9005-25-8
Carbon Active	7440-44-0
Carbonate Salt	144-55-8
Nonwoven Membrane	9007-88-4

Section 3 : Hazard Identification

Physical state	: package powder desiccant, changes to gel when saturated.
General Health Effect	: No health hazard in normal industrial use. However, health hazards do exist as a result of the dust generated if the container is cut, split or otherwise compromised. Prolonged or excessive exposure to dust may cause lung damage. Dust can be irritating to eyes and skin.
Potential Health Effect	: This material is normally packaged and contained in a bag and wrapped by plastic. If the plastic and bag are



	opened, prolonged or repeated inhalation of the dust may cause irritating to respiratory tracts.
Carcinogenic information	: none of the components present in this material at concentration is equal to or greater than 0.1% as listed by IARC, NTP, OSHA or ACGIH as a carcinogen

Section 4 : First Aid Measures

Eye Contact	: mechanical irritation – remove particle. Seek medical help if irritation persists.
Skin contact	: wash skin with water and soap
Ingestion	: normally not needed. If large quantities are ingested, seek medical advice.
Inhalation	: remove immediately to fresh air. Seek medical attention if cough or other symptoms develop or persist.
In case of inhalation	: In case of adverse exposure to vapors and / or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.
In case of skin contact	: For hot product (molten product), immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Use soap if necessary. Seek medical attention if effects persist. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing.

Section 5 : Fire Fighting Measures

Flash point (method)	: N/A (above 600°F, estimated)
Auto ignition temperature	: N/A (> 600°F estimated)
Explosive	: N/A
Lower explosion limit	: N/A
Upper Explosion limit	: N/A
Flammability class	: N/A



Extinguishing media	: Use extinguishing agent applicable to surrounding fire Use water fog, foam, dry chemical or CO ₂
Hazardous combustion	: N/A
Hazardous Decomposition	: Carbon Monoxide, Carbon Dioxide
Incompatibility	: Avoid excessive heat, avoid strong oxidizers, caustics and Fluorines.
Unusual fire and explosion hazard	: Treat as solid that can burn. Molded part generally burns with a low smoke density and dripping flame.
Fire-fighting instructions/equipment	: as in any fire, wear self-contained breathing apparatus operated by pressure-demand mode and full protective gear.
Special Fire Fighting	: Standard procedures for Class A fires. Material will not burn unless preheated. Do not enter confined fire area without full bunker gear (helmet with face shield, bunker coats, gloves rubber boats), respiratory (including positive pressure NIOSH//MSHA approved self-container breathing apparatus) and eye protection required for fire fighting personnel. Use water spray to cool exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Extinguish the fire by cooling with water spray.

Section 6 : Accidental Release Measures		
Safeguards (Personnel)	: Do not inhale if conditions are dusty and use appropriate gloves.	
Spill clean up Containment procedures	 Collect in suitable containers for recovery or disposal pick up large pieces, Flush residual with plenty of water. 	

Section 7 : Handling and Storage

Handling : Use of proper hygiene practices when handling product in workplace. Wash hands after handling and before eating. Keep away from the eyes.

Storage : Store in dry area and do not open outer plastic bag before use as it will become activate. Do not store near flame, or heat or strong oxidants such as hot or concentrated nitric acid or fuming sulfuric acid.



Section 8 : Exposure Con	ntrols / Pers	sonal Protection	
Personal Protective Equipme	ent		
Eye / face	: None nee	ded during normal use and hand	lling
Respirator	: None nee	ded during normal use and hand	lling
Protective gloves	: None nee	ded during normal use and hand	lling
Exposure Guidelines			
		AZARDOUS COMPONENTS	
Section 9 : Physical and	Chemical P	roperties	
Physical Data			
Boiling point	: N/A	Specific gravity	: N/A
Melting point	: N/A	Vapor Density $(AIR = 1)$: N/A
Solubility	: Insoluble		
Odor	: Odorless		
Form	: Bag		
Section 10 : Stability and	l Reactivity	,	
Chemical Stability : Stab	le		
Polymerization : Polymerization will not occur			
Incompatibility : strong oxidizing agents, fluorine			
Section 11 : Toxicologica	l Informati	ion	
Carcinogenicity : N/A		J/A	
Sensitization : Not sensitiz			
	e identified		
Section 12 : Ecological In	nformation		
Ecotoxicological Informatio			
Non – toxic – insolu			
This material is part of mine	ral origin. It	is not biodegradable.	
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Section 13 : Disposal Consideration

Waste Disposal : cut open the bag, empty the contents into suitable containers and dispose of the contents as organic waste. The polyethylene and polypropylene bag is recyclable but maybe disposed of as industrial waste by an approved contractor.



Section 14 : Transportation Information

Shipping Information

DOT Shipping Name : this product is not classified as hazardous for transportation, by air, sea and road freight.

Section 15 : Regulatory Information

IKEA Specification IOS-MAT-0010 On Total Lead Content	: Pass
IKEA Specification IOS-MAT-0010 On Total Cadmium Content	: Pass
IKEA Specification IOS-MAT-0010 On Organo Tin Content	: Pass
U.S. 21 CFR F.D.A. Regulation Part 177.1520 Clause 3.1a And	
3.1b for Olefin Copolymer	: Pass

Polyester Bag (Polyethylene Bag) :

SARA 311/312 : this product is not classified as hazardous under SARA 311/312 None of this product's components are listed under SARA 302 (40 CFR 355 Appendix A), SARA section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4)

Modified Starch :	
WHMIS	: Not controlled
Canadian Domestic Substance List (DSL)	: On inventory

PE&PP Membrane :

There are two components in here. Both of them are Plastic. Both of them are recyclable so they can be put in the plastic waste only. It doesn't need to separate them.

If thermally decomposed, flammable/toxic gases may be released. Upon combustion with insufficient air, carbon monoxide and gaseous hydrocarbons may be generated.

Incinerating PE&PP Membrane requires temperatures about 300°C to produce smoke and combustible gases. Material will not burn unless preheated. Do not enter confined fire spa without full bunker gear (helmet with face shield, bunker coats, gloves rubber boats), respiratory (including positive pressure NIOSH approved self-container breathing apparatus) and eye protection required for fire fighting personnel. Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply to fire. Extinguish the fire by cooling with water spray.



<u>Calcium Chloride:</u> UNITED STATES SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) Fire : No; Pressure generating : No; Reactivity : No; Acute : Yes; Chronic :No

311/312 hazard categories : does not meet any hazard categories Title III Notes : this product contains no substances which are defined as toxic chemical under the reporting requirements of section 313 of Title III of Superfund Amendments And Reauthorization Act of 1986

Section 16 : Other Information

Reason for issue	: Annual review
Revised date	: November 12, 2008
Revision #	: All

This MSDS replaces the August 30, 2007 MSDS.