



Material Safety Data Sheet MSDS

Report No.: COBO23110024-EN

Date: Nov.03.2023

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The following samples were submitted and identified on behalf of the clients as

Sample Name: Polyvinyl Alcohol Flake

Model: /

Sample quantity: 1 Bag

Sample Received Date: Nov.02.2023

Test Period: Nov.02.2023 to Nov.03.2023

Test Method: Please refer to next page(s).

Test Result: Please refer to next page(s).

Report Issuer:





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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification:

Polyvinyl Alcohol Flake

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Material	Molecular Formula	CAS No.	Content
Poly(vinyl Alcohol)	$(C_2H_4O)_n$	9002-89-5	$\leq 98\%$
water	H ₂ O	7732-18-5	$\leq 2\%$



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SECTION 3 HAZARD IDENTIFICATION		
health hazard	eye contact:	Solids or particles can cause irritation when in contact with the eye.
	skin contact:	Under normal circumstances, there is no irritation to the skin.
	imbedibility:	In general, it is not possible to inhale solid colloidal particles, but when inhaling gases from excessive molten resins, fresh air should be given, artificial respiration should be performed if necessary, appropriate measures should be taken in time, and medical attention should be sought.
	Chronic effects/ carcinogenicity:	Not published in NTP, OSHA and IARC

SECTION 4 FIRST-AID MEASURES	
Contact with skin:	Remove contaminated clothing and rinse with running water.
Contact with Eye:	Contact with skin, no special symptoms.
Ingestion:	Leave the scene to fresh air.If breathing is difficult, give oxygen.Go to a doctor.
Eating:	Drink plenty of warm water to induce vomiting. Go to a doctor.
Chronic effects/ carcinogenic causes:	Not published in NTP, OSHA and IARC.



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SECTION 5 FIRE FIGHTING MEASURE

hazardous characteristics:	The product is flammable but must be highly heated to ignite. When fire is involved, the products of thermal decomposition may include irritating fumes and toxic gases (such as carbon oxides, compounds of chromium, magnesium and aluminum, and fluoride of hydrogen).
product of combustion:	Mostly CO ₂ , a little CO, and hydrocarbons.
fire-extinguishing chemical:	Water mist, carbon dioxide, dry powder, foam and other fire extinguishers.
Fire main point:	Fire fighters should wear and be equipped with appropriate protective devices.

SECTION 6 DEAL WITH LEAK

No, according to the physical state of the product, it is not leak able.

SECTION 7 HANDLING AND STORAGE

Information for safe handling:	Treat as a general combustible solid, do not accumulate and scatter dust in it to reduce the risk of explosion.
Information for safe storage:	Store in a cool, ventilated warehouse. Keep away from fire and heat source. Should be stored separately from the oxidant, do not mix storage. Equipped with the appropriate variety and quantity of fire equipment. The storage area shall be equipped with suitable materials to accommodate leaks.



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Engineering control:	Very stable at room temperature and pressure, no need for special management measures. Ventilation devices should be installed in the workplace.
Personal Protection:	Respiratory protection: When the dust concentration in the air exceeds the standard, it is recommended to wear a self-priming filter dust mask.
	Eyes protection: Wear chemical safety glasses when necessary.
	Skin and body protection: Wear general protective clothing and gloves.
Other information:	Smoking is strictly prohibited at work site. Maintain good hygiene.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES	
Appearance and character:	Solid, white, Odorless
Melting point (°C) :	>300°C
Relative density (water =1) :	1.080 g/cm ³
PH:	3.5-7.0 (40g/l, H ₂ O, 20°C)
Refractive index:	1.3810 (estimate)
Flash point:	79°C
main application:	This product is regarded as manufactured articles, no substances are intended to be released and will be safe for consumer during normal handling.



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SECTION 10 STABILITY AND REACTIVITY	
Chemical stability:	Very stable under normal temperature and pressure.
Conditions to avoid:	Open fire, excessive heat.
Materials to avoid:	Strong oxidants.
Decomposition of harmful substances:	Normal temperature, atmospheric pressure decomposition is impossible; During thermal decomposition, it may contain toxic carbon and nitrogen oxides.
Harmful substance polymerization reaction:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION	
Acute Oral Toxicity:	No data available.
Serious Eye Damage/Eye Irritation:	No irritation effects.
Skin Corrosion/Irritation:	No irritation effects.
Mutagenicity:	No known significant effects or harm.
Reproduction Toxicity:	No known significant effects or harm
Carcinogenicity:	Not listed as a carcinogen by IARC, NTP, US OSHA.
Specific Target Organ Toxicity-Single Exposure(Globally Harmonized System):	No known significant effects or harm.
Specific Target Organ Toxicity-Repeated Exposure(Globally Harmonized System):	No known significant effects or harm.



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SECTION 12 ECOLOGICAL INFORMATION

Biological accumulation: no relevant data available.	No information.
Biodegradability: no relevant data.	No information.

SECTION 13 DISPOSAL CONSIDERATIONS

handling method:	Small quantity can be disposed with household waste. As in big quantity, recycle if possible. Offer surplus and non-recyclable products to a licensed disposal company. Observe according to the national and local related regulations.
Pollution packaging treatment:	No information.

SECTION 14 TRANSPORT INFORMATION

Toxic substances not covered by DOT international shipping regulations	
Transportation matters needing attention:	The packing should be complete and the loading should be safe. During transportation, ensure that containers do not leak, collapse, fall, or damage. It is strictly forbidden to mix and transport with oxidizer. During transportation, it should be protected from sun exposure, rain and high temperature.



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SECTION 15 REGULATORY INFORMATION

Applicable laws and regulations:

Regulations on the Safety Management of Chemical Dangerous Goods (issued by The State Council on February 17, 1987), Detailed rules for the Implementation of regulations on the Safety Management of Chemical Dangerous Goods (Hua Lao Fa [1992] No. 677), Regulations on the Safe Use of Chemicals in the Workplace ([1996] Ministry of Labor Fa No. 423), etc. Corresponding provisions have been made for the safe use, production, storage, transportation and handling of dangerous chemicals. Health standard for intermediate polypropylene in the air of workplace (GB16209-1996) specifies the maximum allowable concentration of this substance in the air of workplace and the detection method.

SECTION 16 OTHER INFORMATION

The data and contents contained in this book are for reference only and cannot guarantee the specific use of users. In addition, this product may be due to the purpose of use, material, so this safety data sheet is used to describe the safety criteria of the product and is not a guarantee of the nature of the product.

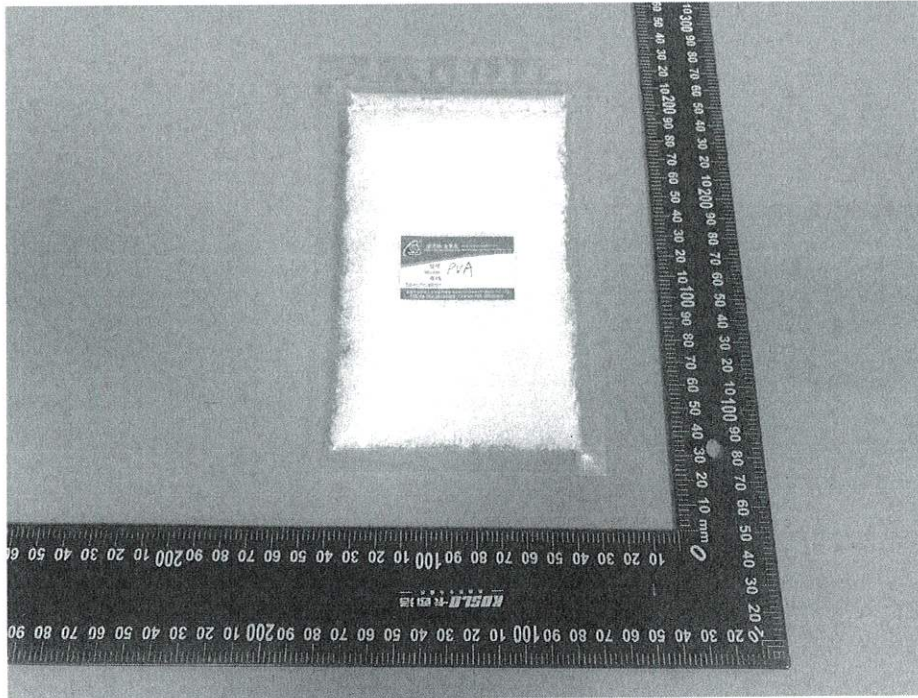
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Photo of the Sample



*** End of Report ***

