

DISODIUM PHOSPHATE DUOHYDRATE

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, Uruguay (Decree 307/2009 as amended by Decree 346/2011), SDS standards for Brazil (ABNT NRB 14725-4: 2014), Singapore Standard SS 586/Part 3/2008, and European Directives

SECTION 1. PRODUCT IDENTIFICATION

<u>1.1 TRADE NAME (AS LABELED)</u> :	Disodium Phosphate Duohydrate
SYNONYMS:	Dibasic Sodium Phosphate Duohydrate
CAS#:	10028-24-7
EC NUMBER:	600-053-5
REACH REGISTRATION #:	N/A
1.2 PRODUCT USE:	Buffer for processed cheese. Emulsifier for processed cheese and condensed milk. Texturizer for instant pudding, cereals, precooked
	meats, and pasta products. Water treatment in food processing.
1.3 MANUFACTURER'S NAME:	Innophos, Inc.
ADDRESS:	259 Prospect Plains Rd. Bldg A, Cranbury, NJ 08512
BUSINESS PHONE:	1-609-495-2495
WEB SITE INFORMATION:	www.innophos.com
RESPONSIBLE PARTY - EU	Labcorp Development S.A.U.
	Parque Empresarial Las Tablas
	Edificio 1
	Calle Federico Mompou
	5-5ª planta
	28050 Madrid, Spain
	Tel: +34 915 901 664
	Email: or-eu@labcorp.com
1.4 EMERGENCY PHONE NUMBERS:	800-424-9300 (CHEMTREC U.S. and Canada – 24 Hrs)
	+1 703-527-3887 (CHEMTREC outside the USA and Canada – 24 Hrs)
	615-386-7816 – Innophos Emergency Communication Team (ECT)
	01-800-00214 00 (SETIQ in Mexico – 24 hrs)
DATE OF PRIOR REVISION:	February 12, 2020
DATE OF LATEST REVISION:	April 13, 2023

SECTION 2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a white granule solid with no odor. **Health Hazards:** May cause irritation the eyes, skin, and respiratory system. **Flammability Hazards:** This product is not flammable. **Reactivity Hazards:** None. **Environmental Hazards:** No data available.

2.1 GHS LABELING AND CLASSIFICATION:

This product meets the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 and regulation (EU) No. 2020/878 and regulation (EC) No. 1272/2008.

Index Number:

EC# 600-053-5 is not listed in Annex VI

Substances not listed either individually or in group entries must be self-classified.

<u>Component(s) Contributing to Classification(s)</u>

Disodium Phosphate Duohydrate

2.2 LABEL ELEMENTS

EUROPEAN and (GHS) Hazard Symbol(s)



Signal Word: **Warning!** <u>GHS Hazard Classification(s):</u> Eye Irritation Category 2A



Hazard Statement(s):

H319: Causes serious eye irritation

Prevention Statement(s):

P264: Wash skin thoroughly after handling.

P280: Use protective gloves/protective clothing/eye protection/face protection.

Response Statement(s):

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice / attention.

Storage Statement(s):

None applicable.

Disposal Statement(s):

None applicable.

2.3 OTHER HAZARDS:

Endocrine Disruptor Information: This product does not contain chemicals on the Candidate List of substances of very high concern for Authorisation.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification
Disodium Phosphate Duohydrate	100%	10028-24-7	600-053-5	Eye Irritation 2A

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinseing for at least 15 minutes. Seek medical attention.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, respiratoy system or eye problems may be aggravated.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Other:

May cause irritation to the eyes.

4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Yes

Use fire extinguishing methods below: <u>Water Spray</u>: Yes <u>Carbon Dioxide</u>: Foam: Yes Dry Chemical:

Yes Yes Any "C" Class

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

None anticipated.

Halon:

Explosion Sensitivity to Mechanical Impact: No Explosion Sensitivity to Static Discharge: No

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Handle in a well-ventilated work area.

6.2 ENVIRONMENTAL PRECAUTIONS:

If possible, prevent entry to sewers, storm drains, surface waters, and soils.

6.3 SPILL AND LEAK RESPONSE:

Spilled product should be removed immediately to avoid formation of dust. Remove by mechanical means (i.e. vacuuming). Dilute remainder with plenty of water (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing.

SECTION 7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Handle in a well-ventilated work area.

7.2 STORAGE AND HANDLING PRACTICES:

Keep away from incompatible materials. Keep in a dry, well-ventilated area in closed containers. Protect containers from physical damage.

7.3 SPECIFIC USES:

See Section 1.2.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA	EH40 TWA
Disodium Phosphate Duohydrate	10028-24-7	Not Listed	Not Listed	Not Listed

PARTICULATES NOT OTHERWISE REGULATED RESPIRABLE FRACTION

	<u>TWA</u>		<u>TWA</u>	
OSHA	5 mg/m³	NOM 010 STPS 2015	3 mg/m3	
PARTICULATES NOT OTHERWISE REGULATED TOTAL DUST				
	TWA		<u>TWA</u>	
OSHA	15 mg/m³	NOM 010 STPS 2015	10 mg/m3	

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Gloves are recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or



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where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES: APPEARANCE (Physical State) and COLOR: This product is a white granular solid

ODOR: No odor **ODOR THRESHOLD:** Not Available **pH:** 9.1 MELTING/FREEZING POINT: Not Available **BOILING POINT: Not Available** FLASH POINT: Not Available EVAPORATION RATE (n-BuAc=1): Not Available FLAMMABILITY (SOLID, GAS): Not Available UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Available VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not Available VAPOR DENSITY: Not Available **RELATIVE DENSITY: Not Available** SPECIFIC GRAVITY: Not Available SOLUBILITY IN WATER: Soluble 11% WEIGHT PER GALLON: Not Available PARTITION COEFFICENT (n-octanol/water): Not Available AUTO-IGNITION TEMPERATURE: Not Available **DECOMPOSITION TEMPERATURE: Not Available** VISCOSITY: Not Available **OXIDIZING PROPERTIES:** Not an Oxidizer **EXPLOSIVE PROPERTIES:** Not Available

9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

EXPLOSIVES: Not Available FLAMMABLE GASES: Not Available **AEROSOLS:** Not Available **OXIDISING GASES:** Not Available **GASES UNDER PRESSURE:** Not Available FLAMMABLE LIQUIDS: Not Available FLAMMABLE SOLIDS: Not Available SELF-REACTIVE SUBSTANCES AND MIXTURES: Not Available **PYROPHORIC LIQUIDS:** Not Available PYROPHORIC SOLIDS: Not Available SELF-HEATING SUBSTANCES AND MIXTURES: Not Available SUBSTANCES AND MIXTURES, WHICH EMIT FLAMMABLE GASES IN CONTACT WITH WATER: Not Available **OXIDISING LIQUID: Not Available OXIDISING SOLID:** Not Available **ORGANIC PEROXIDES:** Not Available **CORROSIVE TO METALS:** Not Available **DESENSITISED EXPLOSIVES:** Not Available GASES UNDER PRESSURE: Not Available

9.2.2 OTHER SAFETY CHARACTERISTICS MECHANICAL SENSTIVITY: Not Available SELF-ACCELERATING POLYMERISATION TEMPERATURE: Not Available FORMATION OF EXPLOSIBLE DUST/AIR MIXTURES: Not Available ACID/ALKALINE RESERVE: Not Available EVAPORATION RATE: Not Available MISCIBILITY: Not Available CONDUCTIVTY: Not Available GAS GROUP: Not Available REDOX POTENTIAL: Not Available RADICAL FORMATION POTENTIAL: Not Available PHOTOCATALYTIC PROPERTIES: Not Available



SECTION 10. STABILITY and REACTIVITY

10.1 REACTIVITY:

No data available

10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

10.4 CONDITIONS TO AVOID:

Dusting conditions, moisture, excess heat.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of sodium. Oxides of phosphorus.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

Disodium Phosphate Duohydrate CAS# 10028-24-7

LD50 Oral, Rat 17000 mg/kg

Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion / irritation	Based on available data, the classification criteria are not met
Serious eye damage / irritation	Eye Irritation Category 2A
Respiratory or skin sensitization	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met

ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with the skin or eyes. The symptoms of overexposure are described in the following paragraphs.

ACUTE:

INHALATION: May cause respiratory irritation.

CONTACT WITH SKIN: Exposure to skin may cause irritation.

EYE CONTACT: Contact with the eyes may cause irritation.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea **CHRONIC**: No data available.

TARGET ORGANS: Acute: Eyes

Chronic: No data available.

SUSPECTED CANCER AGENT: Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This product may be irritating to the skin, eyes, and respiratory system.

SENSITIZATION TO THE PRODUCT: No information available for this product

REPRODUCTIVE TOXICITY INFORMATION: No specific information is available concerning the effects of this product and its components on the human reproductive system.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: Data not sufficient for classification.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: Data not sufficient for classification. **ASPIRATION HAZARD:** None

11.2 INFORMATION ON OTHER HAZARD CLASSES WHICH RELATES TO ENDOCIRNE DISRUPTING PROPERTIES:

No specific data available for this product

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

No specific data available on this product.

12.2 PERSISTENCE AND DEGRADABILITY:



12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

No specific data available on this product.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.

12.6 ENDOCRINE DISRUPTING PROPERTIES:

No specific data available on this product.

12.7 OTHER ADVERSE EFFECTS:

No specific data available on this product.

12.8 WATER ENDANGERMENT CLASS:

May be water endangering in accordance with EU Guideline 91/155-EWG. Do not allow product to reach ground water, water course or sewage system. At present there are no ecotoxicological assessments for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

13.2 EU WASTE CODE:

Not determined.

SECTION 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

 14.1 U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:
 This product is classified (per 49

 CFR 172.101) by the U.S. Department of Transportation, as follows.
 UN IDENTIFICATION NUMBER:

 None

PROPER SHIPPING NAME:	Non-Regulated Material
HAZARD CLASS NUMBER and DESCRIPTION:	None
PACKING GROUP:	None
DOT LABEL(S) REQUIRED:	None
NORTH AMERICAN EMERGENCY RESPONSE GUID	EBOOK NUMBER: None
RQ QUANTITY:	None
NOTE:	None
MARINE POLLUTANT: The components of this produc	t are not designated by the Department of Transportation to be
Marine Pollutants (49 CFR 172.101, Appendix B).	
INTERNATIONAL AIR TRANSPORT ASSOCIATION SHI	PPING INFORMATION (IATA): This product is not considered as
dangerous goods.	
INTERNATIONAL MARITIME ORGANIZATION SHIPPIN	<u>G INFORMATION (IMO)</u> :
UN IDENTIFICATION NUMBER:	None
PROPER SHIPPING NAME:	Non-Regulated Material
HAZARD CLASS NUMBER and DESCRIPTION:	None
UN IDENTIFICATION NUMBER:	None
PACKING GROUP:	None
EUROPEAN AGREEMENT CONCERNING THE INTERI	NATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE: UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None

U.S. SARA 311/312: Acute Health Hazard.

U.S. SARA THRESHOLD PLANNING QUANTITY: None

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.



OTHER U.S. FEDERAL REGULATIONS: None known

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain ingredients on the Proposition 65 Lists.

15.2 CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: Components are DSL Listed, NDSL Listed and/or are exempt from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is classified per 2015 WHMIS Hazardous Product Regulations.

15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details

CHEMICAL SAFETY ASSESSMENT :

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 AUSTRALIAN INFORMATION FOR PRODUCT: Components of this product are listed on the International Chemical Inventory list.

15.5 JAPANESE INFORMATION FOR PRODUCT:

JAPAN INDUSTRIAL SAFETY AND HEALTH LAW: This product has been classified per the Japan Industrial Safety and Health Law. See Section 2 for the GHS Classification.

15.6 INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Not Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Not Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftliste List of Toxic Substances: Not Listed

U.S. TSCA: Not Listed

Mexican Inventory of chemical substances (NOM 010 STPS 2015): Not Listed

SECTION 16. OTHER INFORMATION

HMIS Rating (Scale 0-4)	NFPA Rating (Scale 0-4)
Health hazard: 1	Health hazard: 1
Flammability: 0	Flammability: 0
Physical Hazard: 0	Physical Hazard: 0

Abbreviations and acronyms

	American Conference of Covernmental Industrial University
ACGIH	American Conference of Governmental Industrial Hygienists
CFR	Code of Federal Regulations
DOT	Federal Department of Transportation
GHS	The Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Hazardous Material Identification System
HCS	Hazard Communication Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	The International Air Transport Association
ICAO	The International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LD50/LC50	Lethal Concentration/Dose, 50 percent
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health
PEL	Permissible Exposure Limit
SARA	Superfund Amendments and Reauthorization Act



SAFETY DATA SHEET DISODIUM PHOSPHATE DUOHYDRATE

TLV TWA ACGIH Threshold Limit Value Time-Weighted Average

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MSDS to GHS Compliance www.MSDStoGHS.com

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Innophos, Inc. assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Innophos, Inc. assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

REVISION HISTORY

April 13, 2023

- SDS Review / update

END OF SDS SHEET