Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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· Product identifier
 Trade name: <u>Starch Acid Indicator Powder</u> Product code: BHST5205-H
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd, Cincinnati, OH 45241 (800) 438-2647
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
· Classification of the substance or mixture
Met. Corr.1 H290 May be corrosive to metals.
Met. Corr.1H290 May be corrosive to metals.Skin Corr. 1CH314 Causes severe skin burns and eye damage.
Skin Corr. 1CH314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.
Skin Corr. 1C H314 Causes severe skin burns and eye damage.
Skin Corr. 1CH314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.

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Trade name: Starch Acid Indicator Powder (Cont'd. of page 1) P260 Do not breathe dust. P264 Wash thoroughly after handling. Wear protective gloves/protective clothing/eve protection. P280 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. P310 Wash contaminated clothing before reuse. P363 P405 Store locked up. P406 Store in corrosive resistant container with a resistant inner liner. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Additional information: Read the label and safety data sheet before use. Prevent dust accumulations to minimize explosion hazard. Keep away from all ignition sources including heat, sparks and flame. Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

5329-14-6 sulphamidic acid

🕐 Skin Irrit. 2, H315; Eye Irrit. 2A, H319

9005-25-8 Starch Combustible Dust

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Brush off loose particles from skin.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Seek immediate help for blistering or open wounds.

If skin irritation continues, consult a doctor.

After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

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80%

20%

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Do not induce vomiting; immediately call for medical help. • Most important symptoms and effects, both acute and delayed:

Caustic effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

Danger:

Danger of gastric perforation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

[·] Extinguishing media

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

• For safety reasons unsuitable extinguishing agents: No relevant information available.

Special hazards arising from the substance or mixture

May form combustible dust concentrations in air.

During heating or in case of fire poisonous gases are produced.

Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Remove ignition sources.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Pick up mechanically.

Sweep up and place into an appropriate container.

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

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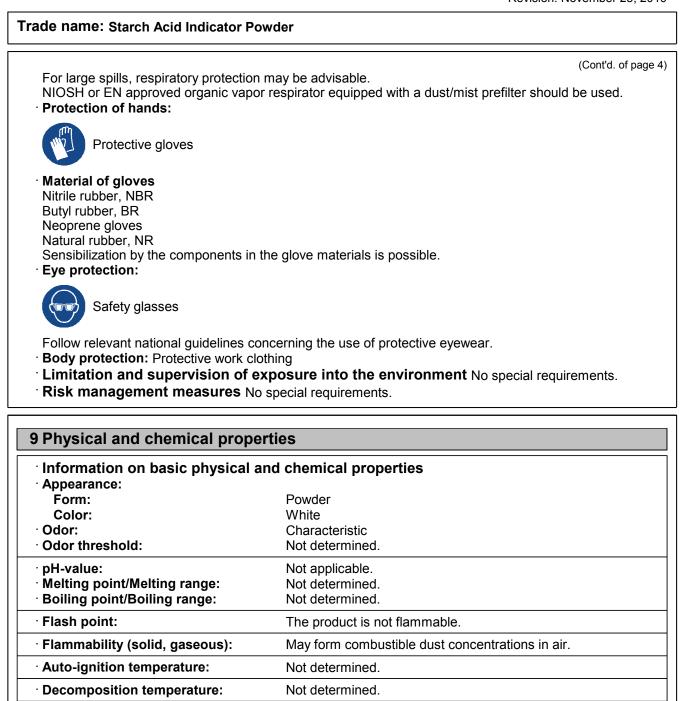
		(Cont'd. of pag
Handling		
	r safe handling:	
Prevent formation	on of dust. Just which cannot be avoided must be regularly removed.	
	n dust covered objects and floors. Wash thoroughly with plenty of water.	
	out protection against explosions and fires:	
	ustible dust concentrations in air. d formation. Keep ignition sources away. No smoking.	
	or safe storage, including any incompatibilities to be met by storerooms and receptacles:	
	nould be dry and well-ventilated.	
	out storage in one common storage facility:	
	midity and water. jether with alkalis (caustic solutions).	
Store away from	n oxidizing agents.	
Further inform	ation about storage conditions:	
Keep containers This product is I		
	use(s) No relevant information available.	
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Not determined. Not determined.

Not determined.

Not determined.

Can pose a dust explosion hazard if dispersed in air.

• Danger of explosion:

· Oxidizing properties:

 Explosion limits Lower:

· Vapor pressure:

Upper:

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		(Cont'd. of pa
Density:		
Relative density:	0.65	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with		
Water:	Partly soluble.	
Partition coefficient (n-octanol/w	ater): Not determined.	
Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No relevant information available.	

10 Stability and reactivity

· Reactivity: No relevant information available.

- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Risk of dust explosion if enriched with fine dust in the presence of air.

- Reacts with alkali (lyes).
- Reacts with oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

Corrosive action on metals in the presence of water.

Conditions to avoid

Moisture.

Prevent formation of dust.

[·] Incompatible materials

Alkalis.

Oxidizing agents.

Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

Nitrogen oxides

11 Toxicological information

Information on toxicological effects

· Acute toxicity: Based on available data, the classification criteria are not met.

- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:

• On the skin: Caustic effect on skin and mucous membranes.

• On the eye: Strong irritant with the danger of severe eye injury.

• Sensitization: Based on available data, the classification criteria are not met.

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• IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

• Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage.
- · Repeated dose toxicity: No relevant information available.
- 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.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- [•] Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

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· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN3260
UN proper shipping name DOT ADR/RID/ADN, IMDG, IATA	Corrosive solid, acidic, inorganic, n.o.s. (Sulfamic aci CORROSIVE SOLID, ACIDIC, INORGANIC, N.O. (SULPHAMIC ACID)
Transport hazard class(es)	
DOT	
CORRESP.	
Class Label	8 8
ADR/RID/ADN	
Class	8 (C2)
Label	8
IMDG, IATA	
Class	8
Label	8
Packing group DOT, ADR/RID/ADN, IMDG, IATA	III
Environmental hazards	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups	Warning: Corrosive substances 80 F-A,S-B Acids

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

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· United States (USA)	
· SARA	
Section 302 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
· TSCA (Toxic Substances Control Act)	
All ingredients are listed or exempt.	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for females:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
· EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer):	
None of the ingredients are listed.	
· Canadian Domestic Substances List (DSL):	
All ingredients listed on DSL or NDSL.	

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Met. Corr. 1: Corrosive to metals – Category 1 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2 Website, European Chemicals Agency (echa.europa.eu)

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(Cont'd. of page 9) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue

1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com