

**HYDRANAL™ Benzoic acid Buffer substance****32035-6X500G**

Version 1.1

Revision Date 03/12/2020

Print Date 06/05/2023

**SECTION 1. IDENTIFICATION**

Product name : HYDRANAL™ Benzoic acid Buffer substance

Number : 000000020635

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
Seelze, 30926

For more information call : 1-800-368-0050  
+1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or**  
: **+1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : powder

Color : white

Odor : slight, original odour

Hazard Summary : Potential dust explosion hazard.

**Classification of the substance or mixture**

Classification of the substance or mixture : Combustible dust  
Skin irritation, Category 2  
Serious eye damage, Category 1  
Specific target organ toxicity - repeated exposure, Category 1,

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Lungs

**GHS Label elements, including precautionary statements**

Symbol(s)

:



Signal word

: Danger

Hazard statements

: May form combustible dust concentrations in air.  
Causes skin irritation.  
Causes serious eye damage.  
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/ eye protection/ face protection.**Response:**IF ON SKIN: Wash with plenty of soap and water.  
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.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Benzoic acid	65-85-0	100.00 %

**SECTION 4. FIRST AID MEASURES**

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : Remove to fresh air. Keep patient warm and at rest. Call a physician immediately.
- Skin contact : Wash off immediately with plenty of water. If skin irritation persists, call a physician.
- Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.
- Ingestion : When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

**Notes to physician**

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

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	Foam Carbon dioxide (CO <sub>2</sub> ) Dry powder
Specific hazards during firefighting	: Avoid dust formation in confined areas. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Static charges on powders or powders in liquids may ignite combustible atmospheres.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: Wear personal protective equipment. Evacuate personnel to safe areas. Provide adequate ventilation. May form explosive dust-air mixture. Avoid dust formation. Accumulations of dust from this product in the workplace may increase the likelihood or severity of an explosion. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Eliminate all ignition sources if safe to do so.
Environmental precautions	: Should not be released into the environment.
Methods and materials for containment and cleaning up	: Avoid dust formation and electrical charging (sparking) because dust explosion might occur. Do not create a powder cloud by using a brush or compressed air. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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Use only non-sparking tools.

**SECTION 7. HANDLING AND STORAGE****Handling**

Precautions for safe handling : Wear personal protective equipment.  
Avoid dust formation.  
Floors, walls and other surfaces must be regularly cleaned.  
The material can accumulate static charge and can therefore cause electrical ignition.  
Static charges on powders or powders in liquids may ignite combustible atmospheres.  
Take precautionary measures against static discharges.

Advice on protection against fire and explosion : All combustible solids have the potential to create a dust explosion hazard. The likelihood of an explosion can be dependent upon many factors, such as the explosive characteristics of the material, the design of the facility, and the manner in which the material is handled. A more detailed discussion can be found in NFPA Bulletin 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids."

**Storage**

Conditions for safe storage, including any incompatibilities : Keep only in the original container, tightly closed, in a well ventilated place.  
Store at room temperature.  
(Ambient temperature: > 0 < 35°C)  
Protect from atmospheric moisture and water.

Advice on common storage : Do not store together with:  
Oxidizing agents  
Keep away from reducing agents.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

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Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.  
Do not breathe dust.

- Engineering measures : Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours.  
Provide exhaust ventilation if dust is formed.  
Use only in an area equipped with explosion proof exhaust ventilation.  
Electrical equipment should be protected to the appropriate standard.  
If formation of dust is observed, equipment has to be switched off, cleaned and serviced.
- Eye protection : Safety goggles
- Hand protection : Latex gloves  
Gloves must be inspected prior to use.  
Replace when worn.
- Skin and body protection : Protective suit
- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
Keep working clothes separately.  
Separate rooms are required for washing, showering and changing clothes.

**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state : powder
- Color : white
- Odor : slight, original odour
- Odor threshold : Note: no data available

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pH	: 2.5 - 3.5 at , 20 °C
Melting point/range	: 121 - 123 °C
Boiling point/boiling range	: 249 - 250 °C
Flash point	: 250 °F (121 °C)
Evaporation rate	: Note: no data available
Flammability	: May form combustible dust concentrations in air.  This product is not easily inflammable. Method: Flammability (solids)
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Vapor pressure	: 1.3 hPa at 96 °C(205 °F)
Vapor density	: Note: no data available
Density	: ca. 1.27 - 1.32 g/cm3 at 20 °C
Water solubility	: ca. 2.9 g/l at 20 °C
Partition coefficient: n-octanol/water	: log Pow: 1.87

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Ignition temperature	: 570 °C
Decomposition temperature	: Note: Stable up to the melting point.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Bulk density	: ca. 500 kg/m <sup>3</sup>

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
Incompatible materials	: Strong oxidizing agents Reducing agents Alkalis
Hazardous decomposition products	: Carbon oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: LD50: 2,565 mg/kg Species: Rat Method: OECD 423
Acute inhalation toxicity	: LC50: > 12.2 mg/l Species: Rat



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Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 402

Skin irritation : Species: Rabbit  
Classification: slightly irritant

Eye irritation : Species: Rabbit  
Classification: Severe eye irritation  
Method: Directive 67/548/EEC, Annex V, B.5.

Sensitisation : Mouse local lymph node assay  
Species: Mouse  
Classification: non-sensitizing

Repeated dose toxicity : Species: Rat  
Application Route: Skin contact  
NOAEL: 2500 mg/kg/d

: Species: Rat  
Application Route: Inhalation (whole body)  
NOAEL: 250 mg/m<sup>3</sup>  
Method: OECD Test Guideline 412

Benzoic acid : Test Method: reverse mutation assay  
Cell type: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish : static test

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LC50: 47.3 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

: static test  
LC50: 44.6 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)

Toxicity to daphnia and other aquatic invertebrates : static test  
EC50: > 100 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

: static test  
NOEC: 100 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

Toxicity to algae : Growth inhibition  
EC50: > 33.1 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

: Growth inhibition  
NOEC: 0.11 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

**Elimination information (persistence and degradability)**

Biodegradability : Value: > 89 %  
Method: OECD Test Guideline 311

**Further information on ecology**

Biochemical Oxygen Demand (BOD)  
Benzoic acid : Value: 1,650 mg/g

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Chemical Oxygen Demand (COD)  
Benzoic acid : Value: 1,950,000 mg/g

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** Not dangerous goods

**TDG** Not dangerous goods

**IATA** Not dangerous goods

**IMDG** Not dangerous goods

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic : On the inventory, or in compliance with the inventory

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Substances and Hazardous  
and Nuclear Waste Control  
Act

China. Inventory of Existing : On the inventory, or in compliance with the inventory  
Chemical Substances  
(IECSC)

New Zealand. Inventory of : On the inventory, or in compliance with the inventory  
Chemicals (NZIoC), as  
published by ERMA New  
Zealand

**National regulatory information**

**SARA 302 Components** : No chemicals in this material are subject to the reporting  
requirements of SARA Title III, Section 302.

**SARA 313 Components** : This material does not contain any chemical components with  
known CAS numbers that exceed the threshold (De Minimis)  
reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**CERCLA Reportable  
Quantity** : 5000 lbs

**California Prop. 65** : This product does not contain any chemicals known to State of  
California to cause cancer, birth defects, or any other  
reproductive harm.

**Massachusetts RTK** : Benzoic acid 65-85-0

**New Jersey RTK** : Benzoic acid 65-85-0

**Pennsylvania RTK** : Benzoic acid 65-85-0

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**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 1	1
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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