

SAFETY DATA SHEET



F34693 HYDRANAL-H2O STD.KF-OVEN ,010KFL

000000020645

Version 1.1

Revision Date 07/31/2017

Print Date 10/17/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYDRANAL™ Water Standard KF-Oven, 140-160°C

Number : 000000020645

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

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 : solid

Color : white

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Combustible dust

GHS Label elements, including precautionary statements

Signal word : Warning

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Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Lactose	64044-51-5	99.00 %

SECTION 4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.

Inhalation : Remove to fresh air.

Skin contact : After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.

Eye contact : Immediately flush eye(s) with plenty of water. Protect unharmed eye.

Ingestion : When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO2)
Dry powder

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- 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.
Hazardous decomposition products formed under fire conditions.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : 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 for 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).
Use only non-sparking tools.

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SECTION 7. HANDLING AND STORAGE**Handling**

- 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

- Requirements for storage areas and containers : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
- 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.

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Eye protection : Safety glasses with side-shields

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 : General industrial hygiene practice.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Color : white

Odor : odourless

Odor threshold : Note: no data available

pH : 4.0 - 6.5 at 100.00 g/l

Melting point/range : 202 °C

Boiling point/boiling range : Note: no data available

Flash point : Note: Not applicable

Flammability : May form combustible dust concentrations in air.

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data available

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Vapor pressure	: Note: no data available
Vapor density	: Note: no data available
Density	: Note: no data available
Water solubility	: 161 g/l at 50 °C
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: 420 - 450 °C
Auto-ignition temperature	: Note: no data available
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Bulk density	: 550 - 650 kg/m3

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Keep away from heat and sources of ignition. Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
Incompatible materials to avoid	: Strong oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons

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(smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: no data available

Acute inhalation toxicity : Note: no data available

Acute dermal toxicity : Note: no data available

Skin irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

: Note: no data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

Further information on ecology

Additional ecological information : no data available

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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 Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

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

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

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 : No SARA Hazards

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.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 0	0
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

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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.

Previous Issue Date: 09/26/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group