Effective: 05/27/88

SECTION U

- HEALTH HAZARD DATA (Continued)

Nitric Acid

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13660 -03

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SECTION

Nitric

Nitric Acid -

4801,5606,9597,5113,9601,9602,5371,9598,9605,9600,9616 Azotic Acid

Carcinogenicity: NTP: No

IARC: No (S ö

Z Listi No

OSHA reg: No

NIOSH/RTECS No.:

Product Codes: Common Synonyms:

Hydrogen Nitrato;

7697-37-2

63.01

CAS No. : Formula Wti Formulai Product Name:

\_m/pm mg/m<sup>2</sup>

ລ 2

Ppm3--

Ppm)----

3 of Overexposure

Permissible Exposure Limit (PEL): Short-Term Exposure Limit (STEL):

PRECAUTIONARY LABELLING

BAKER SAF-T-DATA System







<u>Precautionary Label Statements</u>

ventilation. store near combustible materials. Keep from contact with clothing and other combustible materials. Do not breathe vapor. SPILLAGE MAY CAUSE FIRE OR LIBERATE DANGEROUS GAS
HARNFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY
STRONG OXIDIZER — CONTACT WITH OTHER NATERIAL MAY CAUSE FIRE
LIQUID AND WAPOR CAUSE SEVERE BURNS - MAY BE FATAL IF SWALLOWED OR ] In case of spill, Wash thoroughly after handling. Keep in tightly closed container. neutralize with sode ash Do not get in eyes, on skin In case INHALED

SAF-T-DATA\* Storage Color Code: Yellow (reactive)

Stable

Wash clothing before re-use.

at least 15 minutes while removing contaminated clothing and shoes.

SECTION UI - REACTIVITY DATA

Polymerization:

Will not occur

eathing is difficult, give oxygen, immediately flush eyes or skin with plenty of water

If not breathing, give artificial

or

for

If inhaled, remove to fresh mir. If not respiration. If breathing is difficult,

contact,

Emergency and First Aid Procedures CALL A PHYSICIAN

A FHYSICIAN.

milk of magnesia

Ef swallowed, do NOT induce vomiting; if conscious, give water, milk,

Routes Of Entry

damaged skin,

inhalation,

ingestion, eye contact, skin contact

Medical Conditions Generally Aggravated By Exposure

eyes, skin, mucous membranes, respiratory system, lungs, teeth, GI tract

eye disorders, cardiopulmonary disease, lung disease

and stomach. Ferforation of gastrointestinal tract may

skin, eyes, and mucous membranes

Chronic effects of overexposure may include demage to

lungs and teeth.

Laboratory Protective

Ingestion may cause nausea, vomiting, and severe burns to mouth, throat,

Contact with liquid or vapor may cause severe irritation or burns of the

nhalation of vapors may cause coughing, chest pains, difficult breathing,

nhalation of vapors may cause severe irritation or burns of the espiratory system, pulmonary edema, or lung inflammation.

nhalation and ingestion are harmful and may be futal.

Cunditions to Avoid:

heat, light, moisture

compatibles:

combustible materials, organic mater:

Continued on Page:

hydroxide, water,

strong bases, carbonates, sulfides, cyanides,

SECTION II - HAZARDOUS COMPONENTS

Component

Continued on Page:

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Nitric Acid

HAZARDOUS COMPONENTS

Nitric Acid

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Effective: 05/27/88

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SECTION UI - REACTIVITY DATA (Continued

Decomposition Products: exides of nitrogen, hydrogen

SECTION UII - SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge leak if you can do so without risk. Uentilete erea. Reutrailse erea. soda ash or lime. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spi Keep combustibles (wood, paper, oil, etc.) away from Wear self-contained breathing apparatus and full protective clothing. Ventilate area. Neutralize spill with Flush spill area with water.

J. T. Baker NEUTRASORB<sup>R</sup> or TEAH\* "Low Na+" acid neutralizers are recommended for spills of this product.

Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: SECTION UIII - INDUSTRIAL PROTECTIVE EQUIPMENT D001, D002 (Ignitable, Corrosive Waste)

Use general or local exhaust ventilation ç meet

Respiratory Protection:

Respiratory protection required if airborne to 100 ppm, a chemical cartridge respirator with acid cartridge is recommended. concentration exceeds TLU. self-contained breathing apparatus is At concentrations up Above

Safety goggles and face shield, uniform, protective suit, neoprene gloves are recommended.

SECTION IX - STORAGE AND HONDLING PRECAUTIONS

Yellow (reactive)

Special Precontions

SAF-T-DATA Storage Color Code:

Eye/Skin Protection:

Kuep product out of and combustible materials. Keep container tightly closed. Isolate from incompatible materials Store separately and away from flammable

musual Fire & Explosion Hizards

Use water to keep fire-exposed containers cool; do not get water inside

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Hove exposed containers from fire area if it can be done without risk.

Fire Estinguishing Media

Flammable Limits:

Upper -

N/A \*

NFPA 204M Rating:

3-0-0 OXY

SECTION IU - FIRE AND EXPLOSION HAZARD DATA

Clear, colorless liquid. Suffocating acrid odor.

Complete (in all proportions) & Volatiles by Volume: 100

Appearance & Odor:

Specific Gravity:

1 41

Malting Point:

-42°C ( 121°C

-44°F)

SECTION III -

PHYSICAL DATA

7697-37-2 7732-18-5

Vapor Pressure(mmHg); Uapor Density(air=1); Evaporation Rate:

> Š 9

N/A

250\*F)

pacial Fire-Fighting Procedures

Strong oxidizer. Contact with other with most metals to produce hydrogen mixture with air. Contact with other material may cause fire. gas, which can form an explosive

A violent exothermic reaction occurs with water. Sufficient heat may be produced to ignite combustible materials.

hydrogen gas

SECTION U - HEALTH HAZARD DATA

hreshold Limit Unlue (TLU/TUA): ŝ

C mdd

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Continued on Page:

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Nitric Acid

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

N3660 -03 Effective: 05/27/88

Proper Shipping Name Hazard Class DOMESTIC (D.O.T.) Nitric acid (over 40%)
Oxidizer

Reportable Quantity

DNZHA

Labels

UN2031

OXIDIZER, CORROSIVE 1000 LBS.

INTERNATIONAL (I.M.O.)

Labels DIVINA Proper Shipping Name Hazard Class

Nitric acid B UN2031

CORROSIUE

N/A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet has been compile from our experience and data presented in various technical publications. It suser's responsibility to determine the suitability of this information for J. T. Baker Inc. makes no warranty or representation about the accuracy or completeness nor fitness for purpose of the information contained herein. Le adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available

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