acc. to OSHA and ANSI

Printing date 05/16/2006

Reviewed on 03/31/2006

1 Identification of substance:

Product details:

Product name: Nitric acid, 65-70%

Stock number: 10984

Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Emergency Phone: (978) 521-6300 CHEMTREC: (800) 424-9300 Web Site: www.alfa.com

Information Department: Health, Safety and Environmental Department Emergency information:

During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

2 Composition/Data on components:

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Chemical characterization:

Description: (CAS#)

nitric acid (CAS# 7697-37-2); 65-70%

water (CAS# 7732-18-5); 30-35%

Identification number(s):

EINECS Number: 231-714-2

EU Number: 007-004-00-1
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3 Hazards identification

Hazard description:



C Corrosive O Oxidizing

Information pertaining to particular dangers for man and environment R 8 Contact with combustible material may cause fire. R 35 Causes severe burns. Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH 3 FIRE 0 Reactivity = 0 Reactivity = 2

4 First aid measures

General information Immediately remove any clothing soiled by the product. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly.

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Product name: Nitric acid, 65-70%

Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek immediate medical advice.

5 Fire fighting measures

Suitable extinguishing agents
Product is not flammable. Use fire fighting measures that suit the
surrounding fire.
Special hazards caused by the material, its products of combustion or
resulting gases:
In case of fire, the following can be released:
Nitrogen oxides (NOx)
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits. Measures for cleaning/collecting: Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Absorb with liquid-binding material. Additional information: 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

Handling Information for safe handling: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Substance/product can reduce the ignition temperature of flammable substances. Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from flammable substances. Store away from reducing agents.

Further information about storage conditions:

Keep container tightly sealed.

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Material Safety Data Sheet

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Printing date 05/16/2006 Product name: Nitric acid, 65-70% (Contd. of page 2) Store in cool, dry conditions in well sealed containers. 8 Exposure controls and personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Components with limit values that require monitoring at the workplace: Nitric acid ppmACGIH TLV 2; 4-STEL Austria MAK 2 Belgium TWA 2; 4-STEL Denmark TWA 2 Finland TWA 2; 5-STEL (skin) France VME 2; 5-VLE Germany MAK 2 5 mg/m3-STEL Hungary Japan OEL 2 Korea TLV 2; 4-STEL Norway TWA 2 Poland TWA 5 mg/m3; 10 mg/m3-STEL Russia TWA 2; 2 mg/m3-STEL (skin) Sweden NGV 2; 5-KTV United Kingdom LTEL 2; 4-STEL USA PEL 2 Additional information: No data Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Eye protection: Safety glasses Tightly sealed goggles Full face protection Body protection: Protective work clothing. 9 Physical and chemical properties: General Information Form:

Liquid

Light yellow

Characteristic

(Contd. on page 4)

USA

Color:

Odor:

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Product name: Nitric acid, 65-70%

		(Contd. of page 3
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined	
Flash point:	Not applicable Not determined	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Explosion limits: Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not determined	
Density at 20°C (68°F):	1.5027 g/cm³	
Solubility in / Miscibility with Water:	Fully miscible	

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Materials to be avoided: Reducing agents, easily oxidized materials Bases Metal powders Alkali metals Alkaline earth metals Cyanides Sulfides Dangerous reactions Reacts with metals forming hydrogen Reacts with reducing agents Reacts with flammable substances Dangerous products of decomposition: Nitrogen oxides

11 Toxicological information

Acute toxicity: LD/LC50 values that are relevant for classification: Oral: LDLo: 430 mg/kg (hmn)(HNO3) Unreported: LDLo: 110 mg/kg (man)(HNO3) Primary irritant effect: on the skin: Strong corrosive effect on skin and mucous membranes. Irritant to skin and mucous membranes. on the eye: Strong corrosive effect. Irritating effect. Sensitization: No sensitizing effects known.

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Product name: Nitric acid, 65-70%

Subacute to chronic toxicity:

(Contd. of page 4)

Nitric acid is a corrosive oxidizing acid. The liquid causes burns on contact. Eye contact may cause blindness. Vapors are irritating and cause upper respiratory irritation which may be severe. Corrosive to the teeth and digestive tract on ingestion. Dilute solutions have reduced effects.

Additional toxicological information:

Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information:

General notes:

Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:

Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

DOT regulations:



Hazard class:8Packing group:IIHazardous substance:1000 lbs, 454 kgLabel8

Land transport ADR/RID (cross-border)



ADR/RID class:8 (C1) Corrosive substancesDanger code (Kemler):80UN-Number:2031Packaging group:II

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Product name: Nitric acid, 65-70%

Description of goods: 2031 NITRIC ACID Naritime transport IMDG: With transport IMDG: IMDG Class: 8 UN Number: 2031 Label 8 Packaging group: II EMS Number: F-A.S-B Proper shipping name: NITRIC ACID Air transport ICAO-TI and IATA-DGR: With transport ICAO-TI and IATA-DGR: ICAO/IATA Class: 8 UN/ID Number: 2031 Label 8 Packaging group: II Proper shipping name: NITRIC ACID Regulations Regulations Regulations Regulations Regulations Risk phrases: 8 Contact with combustible material may cause fire. 35 Causes severe burns. Safety phrases: 23 Do not breathe fumes 24 Contact with combustible material may cause fire. 35 Cause of contact with eyes, rinse immediately with plenty of wate and seek medical advice. 36 Mear suitable protective clothing. 45 In case of accident or if you feel unwell, seek medical advice immediately. Mational regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). Information about limitation of use: For use only by technically qualified individuals. (conted. or pe		(Contd. of page
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USA

Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 05/16/2006

Reviewed on 03/31/2006

Product name: Nitric acid, 65-70%

(Contd. of page 6) This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing MSDS: Health, Safety and Environmental Department. **Contact:** Darrell R. Sanders