

Safety Data Sheet according to 29 CFR 1910.1200(g)

Revision date: 03/12/2014 (Name Revision 5/6/16)

Version: 1.1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance

Substance name : Nitric Acid (Various Concentrations)

CAS No. : 7697-37-2 Formula :  $HNO_3$  (aq) Synonyms : Nitric acid...%

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation : Fertilizer, Industrial use

### 1.3. Details of the supplier of the safety data sheet

East Dubuque Nitrogen Fertilizers, LLC 16675 Highway 20 West East Dubuque, IL 61025

T 815-747-3101

#### 1.4. Emergency telephone number

Emergency number : 800-424-9300

CHEMTREC

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### **GHS-US classification**

Ox. Liq. 3 H272 Acute Tox. 2 (Inhalation: mist) H330 Skin Corr. 1A H314 Eye Dam. 1 H318

#### 2.2. Label elements

#### **GHS-US labelling**

Hazard pictograms (GHS-US) :





GHS05

,

GHS06

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H272 - May intensify fire; oxidizer

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H330 - Fatal if inhaled

Precautionary statements (GHS-US) : P210 - Keep away from open flames, sparks. - No smoking

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Signal word (GHS-US) : Danger

P220 - Keep/Store away from combustible materials

P221 - Take any precaution to avoid mixing with combustible materials

P260 - Do not breathe fume, mist, vapors, spray

P264 - Wash hands and forearms thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective gloves, protective clothing

P284 - [In case of inadequate ventilation] wear respiratory protection P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/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

P310 - Immediately call a POISON CENTER or doctor

P370+P378 - In case of fire: Use appropriate media for extinction

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container according to local, regional, national, and international regulations

#### 2.3. Other hazards

Other hazards not contributing to the : Hazardous to the aquatic environment - Acute Hazard Category 3.

classification Harmful to aquatic life.

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

: Nitric Acid (Various Concentrations) Name

CAS No. : 7697-37-2 EC no : 231-714-2 : 007-004-00-1 EC index no

| Name        | Product identifier  | %         | GHS-US classification                 |
|-------------|---------------------|-----------|---------------------------------------|
| Nitric acid | (CAS No.) 7697-37-2 | 20 - < 70 | Ox. Liq. 3, H272                      |
|             |                     |           | Acute Tox. 2 (Inhalation: mist), H330 |
|             |                     |           | Skin Corr. 1A, H314                   |
|             |                     |           | Eye Dam. 1, H318                      |
| Water       | (CAS No.) 7732-18-5 | 30 - 80   | Not classified                        |

Full text of H-phrases: see section 16

#### 3.2. Mixtures

Not applicable

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# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. If you feel unwell,

seek medical advice (show the label where possible).

First-aid measures after inhalation : Using proper respiratory protection, immediately move the exposed

person to fresh air. Keep at rest and in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Seek

immediate medical advice. Symptoms may be delayed.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse

immediately with plenty of water (for at least 15 minutes). Seek medical attention immediately if exposure is severe. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period (at least 15 minutes)

while holding the eyelids wide open. Seek medical attention immediately if exposure is severe. Obtain medical attention if irritation develops or

persists.

First-aid measures after ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and

show this container or label.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Fatal if inhaled. Corrosive. Causes burns.

Symptoms/injuries after inhalation : Causes severe respiratory irritation if inhaled. Symptoms may include:

Burning of nose and throat, constriction of airway, difficulty breathing, shortness of breath, bronchial spasms, chest pain, and pink frothy sputum. Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema. Symptoms may be delayed.

Symptoms/injuries after skin contact : Contact may cause immediate severe irritation progressing quickly to

chemical burns.

Symptoms/injuries after eye contact : Contact may cause immediate severe irritation progressing quickly to

chemical burns. Can cause blindness.

Symptoms/injuries after ingestion : May cause burns or irritation of the linings of the mouth, throat, and

gastrointestinal tract. Swallowing a small quantity of this material will result

in serious health hazard.

Chronic symptoms : Repeated or prolonged inhalation may damage lungs. Prolonged and

repeated contact will eventually cause permanent tissue damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not get water inside containers. Do not apply water stream directly at

source of leak. Do not use a heavy water stream. A direct water stream will

cause violent splattering and generation of heat.

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### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. May cause or intensify fire; oxidizer. Under conditions of fire

this material may produce: Nitrogen oxides; Nitrogen.

Explosion hazard : Product is not explosive.

Reactivity : May accelerate the burning of other combustible materials. May cause or

intensify fire; oxidizer.

5.3. Advice for firefighters

Firefighting instructions : Keep upwind. Use water spray or fog for cooling exposed containers.

Protection during firefighting : Firefighters must use full bunker gear including NIOSH-approved positive-

pressure self-contained breathing apparatus to protect against potential

hazardous combustion and decomposition products.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Use recommended respiratory protection. Wear suitable protective clothing,

gloves and eye/face protection.

Emergency procedures : Stop leak if safe to do so. Eliminate ignition sources. Evacuate unnecessary

personnel. Ventilate area. Keep upwind.

6.1.2. For emergency responders

Protective equipment : Use recommended respiratory protection. Wear suitable protective

clothing, gloves and eye/face protection.

Emergency procedures : Stop leak if safe to do so. Eliminate ignition sources. Evacuate unnecessary

personnel. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry

into sewers or streams.

Methods for cleaning up : Ventilate area. Small quantities of liquid spill: take up in non-combustible

absorbent material and shovel into container for disposal. Liquid spill: neutralize with powdered limestone or sodium bicarbonate. Collect absorbed material and place into a sealed, labelled container for proper disposal. Practice good housekeeping - spillage can be slippery on smooth

surface either wet or dry.

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# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Wear

recommended personal protective equipment. Ensure there is adequate ventilation. Keep away from heat and open flame. Employ good

maintenance practices to prevent leaks. Use good process control

measures to prevent releases.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash contaminated

clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials : Avoid contact with most metals, carbides, hydrogen sulfide, turpentine,

organic acids, combustibles (wood, paper, cotton) and other organic and

readily oxidized materials.

Prohibitions on mixed storage : Keep away from (strong) bases.

Storage area : Store in dry, cool area. Store in a well-ventilated place. Keep away from

combustible materials.

Special rules on packaging : Do not store in steel or copper containers.

# 7.3. Specific end use(s)

Fertilizer; Industrial use

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Nitric acid (7697-37-2) |                        |         |
|-------------------------|------------------------|---------|
| USA ACGIH               | ACGIH TWA (ppm)        | 2 ppm   |
| USA ACGIH               | ACGIH STEL (ppm)       | 4 ppm   |
| USA OSHA                | OSHA PEL (TWA) (mg/m³) | 5 mg/m³ |
| USA OSHA                | OSHA PEL (TWA) (ppm)   | 2 ppm   |

## 8.2. Exposure controls

Appropriate engineering controls : Provide sufficient ventilation to keep ammonia vapors below the

permissible exposure limit. Ensure adequate ventilation, especially in

confined areas.

Personal protective equipment :











Hand protection : Impermeable protective gloves.

Eye protection : Chemical goggles and face shield.

Skin and body protection : Wear suitable protective clothing. Chemical resistant suit, chemical

resistant apron, boots.

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Respiratory protection : Use a NIOSH-approved respirator or self-contained breathing apparatus

whenever exposure may exceed established Occupational Exposure Limits.

Environmental exposure controls : Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of any potential exposure.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear

Molecular mass : 63.01 g/mol (aq)

Color : Colorless to straw yellow

Odor : Pungent; Acrid
Odor threshold : No data available

pH : < 1 pH solution : 10 %

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : -18 - -34 °C (-0.5 - -30 °F) (20 - 85 % solution)

Freezing point : No data available

Boiling point : 103 - 122 °C (218 - 252 °F) (20 - 85 % solution)

Flash point : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available

Vapor pressure : 7 mm Hg at 20 °C (68 °F)

Relative vapor density at 20 °C (68 °F) : No data available

Relative density : 1.12 - 1.41 (20 - 70 % solution, Water = 1)

Solubility : Water: Miscible Log Pow : -2.3 (at 25 °C) Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosive** properties : No data available : No data available Oxidising properties **Explosive limits** : No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

May accelerate the burning of other combustible materials. May cause or intensify fire; oxidizer.

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## 10.2. Chemical stability

Stable at standard temperature and pressure.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Protect from moisture.

### 10.5. Incompatible materials

Avoid contact with most metals, carbides, hydrogen sulfide, turpentine, organic acids, combustibles (wood, paper, cotton) and other organic and readily oxidized materials.

### 10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Nitrogen oxides; Nitrogen.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Fatal if inhaled.

| Nitric acid (7697-37-2)                            |  |
|--|--|
| LC50 inhalation rat (mg/l)                         | 0.13 mg/l (Exposure time: 4 h)   |
|  |  |
| Skin corrosion/irritation                          | : Causes severe skin burns and eye damage.   |
|  | pH: < 1 (10 % solution)  |
| Serious eye damage/irritation                      | : Causes serious eye damage.   |
|  | pH: < 1 (10 % solution)  |
| Respiratory or skin sensitisation                  | : Not classified   |
| Germ cell mutagenicity                             | : Not classified   |
| Carcinogenicity                                    | : Not classified   |
| Reproductive toxicity                              | : Not classified   |
| Specific target organ toxicity (single exposure)   | : Not classified   |
| Specific target organ toxicity (repeated exposure) | : Not classified   |
| Aspiration hazard                                  | : Not classified   |
| Symptoms/injuries after inhalation                 | : Causes severe respiratory irritation if inhaled. Symptoms may include: Burning of nose and throat, constriction of airway, difficulty breathing, shortness of breath, bronchial spasms, chest pain, and pink frothy sputum. Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema. Symptoms may be delayed. |
| Symptoms/injuries after skin contact               | : Contact may cause immediate severe irritation progressing quickly to chemical burns.   |

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Symptoms/injuries after eye contact
 Contact may cause immediate severe irritation progressing quickly to chemical burns. Can cause blindness.
 Symptoms/injuries after ingestion
 May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.
 Chronic symptoms
 Repeated or prolonged inhalation may damage lungs.

: Repeated or prolonged inhalation may damage lungs.
Prolonged and repeated contact will eventually cause

permanent tissue damage.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

| Nitric acid (7697-37-2) |   |
|-------------------------|---|
| LC50 fish 1             | 72 mg/l (Exposure time: 96 h - Species: Gambusia affinis) |

### 12.2. Persistence and degradability

| Nitric Acid (Various Concentrations) (7697-37-2) |                           |
|--|---------------------------|
| Persistence and degradability                    | Product is biodegradable. |

#### 12.3. Bioaccumulative potential

| Nitric Acid (Various Concentrations) (7697-37-2)         |                 |
|--|-----------------|
| Bioaccumulative potential Not expected to bioaccumulate. |                 |
| Nitric acid (7697-37-2)                                  |                 |
| Log Pow  | -2.3 (at 25 °C) |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Sewage disposal recommendations : This material is hazardous to the aquatic environment. Keep out of sewers

and waterways.

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national,

and international regulations.

# **SECTION 14: Transport information**

DOT Shipping information below applies to BULK shipments only.

### 14.1. UN number

DOT UN No. : UN2031

### 14.2. UN proper shipping name

DOT Proper Shipping Name : Nitric acid

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Department of Transportation (DOT) Hazard Classes

< 65% Nitric Acid : Class 8 - Corrosive material

> 65% to < 70% Nitric Acid : Class 8 - Corrosive material and Subclass 5.1 - Oxidizer

Packing group (DOT) : II

14.3. Additional Information

DOT Reportable Quantity (RQ) : 1000 lb CHRIS Code : NAC

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

| Nitric Acid (Various Concentrations) (7697-37-2)            |                                      |
|---|--------------------------------------|
| SARA Section 311/312 Hazard Classes                         | Immediate (acute) health hazard      |
| Nitric acid (7697-37-2)                                     |                                      |
| United States TSCA (Toxic Substances Control Act) inventory | Yes                                  |
| EPCRA (SARA) § 313  | Yes - 1.0 % de minimus concentration |
| EPCRA (SARA) Threshold Planning Quantity (TPQ)              | 1000 lb                              |
| EPCRA (SARA) Reportable Quantity (RQ)                       | 1000 lb                              |
| EPCRA(SARA) Extremely Hazardous Substance                   | Yes                                  |
| CERCLA Reportable Quantity (RQ)                             | 1000 lb                              |
| CERCLA Hazardous Substance                                  | Yes                                  |

## 15.2. US State regulations

#### Nitric acid (7697-37-2)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants With Proposed Risk Values
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Accidental Release Prevention Regulations Sufficient Quantities
- U.S. Delaware Accidental Release Prevention Regulations Threshold Quantities
- U.S. Delaware Accidental Release Prevention Regulations Toxic Endpoints
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Hawaii Occupational Exposure Limits STELs
- U.S. Hawaii Occupational Exposure Limits TWAs
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Conc. Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Conc. Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act

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- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Michigan Process Safety Management Highly Hazardous Chemicals
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Jersey TCPA Extraordinarily Hazardous Substances (EHS)
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Carolina Control of Toxic Air Pollutants
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Ohio Accidental Release Prevention Threshold Quantities
- U.S. Ohio Extremely Hazardous Substances Threshold Quantities
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits STELs
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits STELs
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Height 25 Ft to Less Than 40 Ft
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Height 40 Ft to Less Than 75 Ft
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Height 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Height Less Than 25 Feet
- U.S. Wyoming Process Safety Management Highly Hazardous Chemicals

### **SECTION 16: Other information**

Full text of H-phrases:

| Acute Tox. 2 (Inhalation: mist) | Acute toxicity (inhalation: mist) Category 2 |
|---------------------------------|--|
|                                 |  |

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| Eye Dam. 1    | Serious eye damage/eye irritation Category 1 |
|---------------|--|
| Ox. Liq. 3    | Oxidizing liquids Category 3                 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A        |
| H272          | May intensify fire; oxidizer                 |
| H314          | Causes severe skin burns and eye damage      |
| H318          | Causes serious eye damage                    |
| H330          | Fatal if inhaled                             |

NFPA health hazard : 4 - Very short exposure could cause death or serious

residual injury even though prompt medical attention

was given.

NFPA fire hazard : 0 - Materials that will not burn.

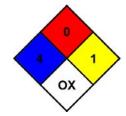
NFPA reactivity : 1 - Normally stable, but can become unstable at

elevated temperatures and pressures or may react with water with some release of energy, but not

violently.

NFPA specific hazard : OX - This denotes an oxidizer, a chemical which can

greatly increase the rate of combustion/fire.



The information contained in this Safety Data Sheet (SDS) relates only to the specific product(s) designated herein. The information and recommendations are based upon data believed to be current as of the date of this SDS and was obtained from sources believed to be accurate. However, this information is furnished without warranty, representations, or license of any kind, express or implied, with respect to accuracy, correctness, or completeness and neither East Dubuque Nitrogen Fertilizers, LLC nor its affiliates assume any legal responsibility for use or reliance upon same.

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