# **NITRIC ACID 10% SOLUTION AR MSDS**

CAS No: MSDS



# **MATERIAL SAFETY DATA SHEET (MSDS)**

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

1.1. Product identifier

Product form : Mixture

:

Product code : 0224H
Formula : HNO3

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

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

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### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Liquids, H272
Category 2
Corrosive to metals, H290
Category 1
Skin corrosion/irritation, H314

Category 1A

Full text of classification categories and H statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. **Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS03

GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H272 - May intensify fire; oxidiser H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

: P280 - Wear protective gloves/protective clothing/eye protection/face protection Precautionary statements (CLP)

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician

#### Other hazards 2.3.

No additional information available

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

#### 3.1. **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	89.5 - 90.5	Not classified
Nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1	9.5 - 10	Ox. Liq. 1, H271 Skin Corr. 1A, H314

Full text of H-phrases: see section 16

## **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact Take off contaminated clothing. Gently wash with plenty of soap and water. Get

immediate medical advice/attention.

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First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. If you feel unwell, seek medical advice.

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

Symptoms/injuries : Causes severe skin burns and eye damage.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Water. Do not use a heavy water stream.

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

Fire hazard : May intensify fire; oxidiser.

Hazardous decomposition products in case of fire

: May release flammable gases.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

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

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe vapours.

# 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area. Stop release.

## 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

with inert solids, such as clay or diatomaceous earth as soon as possible.

#### 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

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

Storage conditions : Keep container tightly closed. Store in a dry place. Store in a well-ventilated place.

# 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

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### 8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses

Respiratory protection : Wear appropriate mask

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

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

Physical state : Liquid

Colour : Clear Colorless.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Solubility : No data available

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

#### 9.2. Other information

No additional information available

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## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

May be corrosive to metals. May intensify fire; oxidiser.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Moisture.

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit

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

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No additional information available

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#### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

No additional information available

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 2031 UN-No. (IMDG) : 2031 UN-No.(IATA) : 2031

UN-No.(ADN) : Not regulated UN-No. (RID) : Not regulated

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : NITRIC ACID
Proper Shipping Name (IMDG) : NITRIC ACID
Proper Shipping Name (IATA) : NITRIC ACID
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not regulated

Transport document description (ADR) : UN 2031 NITRIC ACID, 8, II, (E)
Transport document description (IMDG) : UN 2031 NITRIC ACID, 8, II
Transport document description (IATA) : UN 2031 NITRIC ACID, 8, II

#### 14.3. Transport hazard class(es)

# ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



## **IMDG**

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8

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**IATA** 

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



**ADN** 

Transport hazard class(es) (ADN) : Not regulated

**RID** 

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II

Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C1 Limited quantities (ADR) : 1L Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Special packing provisions (ADR) : PP81, B15
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container : T8

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80

Orange plates

80 2031

: TP2

Tunnel restriction code (ADR) : E

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EAC code : 2P APP code : B

#### - Transport by sea

Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2 : P001 Packing instructions (IMDG) Packing provisions (IMDG) : PP81 IBC packing instructions (IMDG) : IBC02 IBC special provisions (IMDG) : B15, B20 Tank instructions (IMDG) : T8 Tank special provisions (IMDG) : TP2 EmS-No. (Fire) : F-A : S-B EmS-No. (Spillage) Stowage category (IMDG) : D

Segregation (IMDG) : SG6, SG16, SG17, SG19

#### - Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity : Forbidden

(IATA)

PCA packing instructions (IATA) : Forbidden
PCA max net quantity (IATA) : Forbidden
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
ERG code (IATA) : 8L

#### - Inland waterway transport

Not regulated

#### - Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV, Annex 1)

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Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### **Denmark**

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product

# **Chemical safety assessment**

No additional information available

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

### Full text of H- and EUH-phrases:

	· an toxt of fire and zero prince of	
Met. Corr. 1	Corrosive to metals, Category 1	
Ox. Liq. 1	Oxidising Liquids, Category 1	
Ox. Liq. 2	Oxidising Liquids, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
H271	May cause fire or explosion; strong oxidiser	
H272	May intensify fire; oxidiser	
H290	May be corrosive to metals	
H314	Causes severe skin burns and eye damage	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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