

# Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 16.10.2023

Version: 5.0

Date previous version: 28.09.2023

Previous version: 4.0

Date / First version: 26.05.2023

Product: **Nitric Acid 68% Antw**

(ID no. 30042410/SDS\_GEN\_GB/EN)

Date of print 16.10.2025

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

### 1.1. Product identifier

## Nitric Acid 68% Antw

UFI: F4AV-AFA4-S00V-KKEP

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

Relevant identified uses: Chemical

Recommended use: inorganic acid, Raw material, initial product for chemical syntheses, oxidizing agents, Surface treatment agent

Uses advised against: All consumer uses are strongly advised against.

For the detailed identified uses of the product see appendix of the safety data sheet.

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

Company:

BASF SE  
67056 Ludwigshafen  
GERMANY

Contact address:

BASF plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Ox. Liq. 3	H272 May intensify fire; oxidizer.
Met. Corr. 1	H290 May be corrosive to metals.
Acute Tox. 3 (Inhalation - vapour)	H331 Toxic if inhaled.
Skin Corr./Irrit. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.

Specific Concentration Limits According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 1A:  $\geq 20$  %  
 Skin Corr./Irrit. 1B: 5 - < 20 %  
 Ox. Liq. 3:  $\geq 65$  %

For the classifications not written out in full in this section the full text can be found in section 16.

### 2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H290	May be corrosive to metals.
H272	May intensify fire; oxidizer.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection or face protection.

Precautionary Statements (Response):

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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 physician.

Precautionary Statements (Storage):

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

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

According to Regulation (EC) No 1272/2008 [CLP]

Labeling of special preparations (GHS):

EUH071: Corrosive to the respiratory tract.

Contact with metal liberates toxic gas.

Hazard determining component(s) for labelling: nitric acid ...% [C ≤ 70 %]

## 2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Possible risk by inhalation of aerosols.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

nitric acid ...% [C ≤ 70 %] (Content (W/W): 68 %)

HNO<sub>3</sub>

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### Hazardous ingredients (GHS)

nitric acid ...% [C ≤ 70 %]

Content (W/W): ≥ 50 % - < 75 %

CAS Number: 7697-37-2

EC-Number: 231-714-2

REACH registration number: 01-2119487297-23

INDEX-Number: 007-030-00-3

Ox. Liq. 3

Met. Corr. 1

Acute Tox. 3 (Inhalation - vapour)

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

H290, H272, H331, H314

#### Specific concentration limit:

Skin Corr./Irrit. 1B: 5 - < 20 %

Skin Corr./Irrit. 1A: ≥ 20 %

Ox. Liq. 3: ≥ 65 %

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## **SECTION 4: First-Aid Measures**

### **4.1. Description of first aid measures**

Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Symptoms can appear later.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary edema. Pulmonary edema prophylaxis. Medical monitoring for at least 24 hours. If necessary, give oxygen.

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:  
water spray

Additional information:

Use extinguishing measures to suit surroundings.

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

Endangering substances: nitrogen oxides

Advice: The substances/groups of substances mentioned can be released in case of fire.

#### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. Suppress gases/vapours/mists with water spray jet. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Substance/product is an oxidizing agent and can supply oxygen to stimulate or accelerate the combustion of organic or other combustible substances/products.

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### **SECTION 6: Accidental Release Measures**

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

Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

#### **6.2. Environmental precautions**

Discharge into the environment must be avoided. Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

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

For small amounts: Dilute with water. Neutralize with soda or slaked lime.

For large amounts: Pump off product. Place into suitable container for disposal.

#### **6.4. Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

The product is incombustible. It can lower the ignition temperature of combustible substances. Store in a cool place. If heated the drums can burst due to pressure build-up.

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

Segregate from oxidizable substances. Segregate from alkalies and alkalizing substances.

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4402 (V4A), Stainless steel 1.4404, Stainless steel 1.4408, Stainless steel 1.4571, Stainless steel 1.4361, Stainless steel 1.4541, glass, enamelled, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect against contamination. Protect from direct sunlight. Protect contents from the effects of light. Protect from atmospheric humidity.

### 7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

7697-37-2: nitric acid ...% [C ≤ 70 %]

STEL value 2.6 mg/m<sup>3</sup> ; 1 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

STEL value 2.6 mg/m<sup>3</sup> ; 1 ppm (OEL (EU))

indicative

#### PNEC

freshwater:

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

marine water:

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

intermittent release:

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A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

sediment (freshwater):

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

sediment (marine water):

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

soil:

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

STP:

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

#### DNEL

worker:

Long-term exposure - local effects, Inhalation: 2.6 mg/m<sup>3</sup>

worker:

Short-term exposure - local effects, Inhalation: 2.6 mg/m<sup>3</sup>

consumer:

Long-term exposure - local effects, Inhalation: 1.3 mg/m<sup>3</sup>

consumer:

Short-term exposure - local effects, Inhalation: 1.3 mg/m<sup>3</sup>

## **8.2. Exposure controls**

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for acid inorganic gases/vapours such as SO<sub>2</sub>, HCl (e.g. EN 14387 Type E). Gas filter for gases/vapours of inorganic compounds (e.g. EN 14387 Type B) Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus.

Hand protection:

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Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

chloroprene rubber (CR) - 0.5 mm coating thickness

butyl rubber (butyl) - 0.7 mm coating thickness

fluoroelastomer (FKM) - 0.7 mm coating thickness

polyvinylchloride (PVC) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:

chemical-protection suit (f.e. according to EN 14605)

General safety and hygiene measures

Take off immediately all contaminated clothing.

## SECTION 9: Physical and Chemical Properties

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

Form:	liquid	
Colour:	colourless to yellowish	
Odour:	pungent odour	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	< 1	
Melting point:	-38 °C	
	Literature data.	
boiling temperature:	121 °C	
	Literature data.	
Flash point:	Study scientifically not justified.	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	not flammable	(other)



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Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.

Upper explosion limit:

For liquids not relevant for classification and labelling.

Ignition temperature:

Study scientifically not justified.

Vapour pressure:

9 hPa  
(20 °C)  
Literature data.  
49 hPa  
(50 °C)  
Literature data.

Density:

1.405 g/cm<sup>3</sup>  
(20 °C)  
Literature data.

Relative density:

1.5129  
(20 °C)  
Literature data.

Relative vapour density (air): 2.17

(calculated)

(20 °C)  
Heavier than air.

Solubility in water:

miscible  
> 500 g/l  
(20 °C)

Partitioning coefficient n-octanol/water (log Kow):

Study scientifically not justified.

*Information on: nitric acid ...% [C ≤ 70 %]*

*Partitioning coefficient n-octanol/water (log Kow):*

*Study scientifically not justified.*

Self ignition:

not self-igniting

Test type: Spontaneous self-ignition at room-temperature.

Thermal decomposition:

No decomposition if correctly stored and handled. To avoid thermal decomposition, do not overheat.

Viscosity, dynamic:

2.0 mPa.s  
(20 °C)  
Literature data.

Explosion hazard:

Based on the chemical structure there is no indication of explosive properties.

Fire promoting properties:

Oxidizing.

## 9.2. Other information

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Self heating ability:	It is not a substance capable of spontaneous heating.	
Miscibility with water:	(15 °C) completely (e.g. >=90%)	
pKA:	-1.38	(calculated)
:	Study scientifically not justified.	
Surface tension:	No data available.	
Grain size distribution:	Based on chemical structure, surface activity is not to be expected.	
Molar mass:	The substance / product is marketed or used in a non solid or granular form.	
	63.01 g/mol	

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effect on metals.

Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

Exothermic reaction. Reacts with reducing agents. Reacts with bases. Addition of water leads to increase in temperature. Can nitrate, oxidize and explode. Forms nitrous gases and hydrogen on action upon metals.

### 10.4. Conditions to avoid

Avoid heat. See SDS section 7 - Handling and storage.

### 10.5. Incompatible materials

Substances to avoid:  
flammable, oxidizable substances, base metals

### 10.6. Hazardous decomposition products

Hazardous decomposition products:  
nitrogen oxides

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Toxic by inhalation. The toxicity of the product is based on its corrosivity.

Experimental/calculated data:

(oral): If swallowed, will immediately cause severe corrosion and damage to the gastrointestinal tract.

LC50 rat (by inhalation): > 2.65 mg/l 4 h (OECD Guideline 403)

The vapour was tested.

(dermal): Due to the corrosive properties of the substance higher doses cannot be tested. Study does not need to be conducted.

*Information on: nitric acid ...% [C ≤ 70 %]*

*Assessment of acute toxicity:*

*Toxic by inhalation. The toxicity of the product is based on its corrosivity.*

*Information on: nitric acid ...% [C ≤ 70 %]*

*Experimental/calculated data:*

*LC50 rat (by inhalation): > 2.65 mg/l 4 h (OECD Guideline 403)*

*The vapour was tested.*

#### Irritation

Assessment of irritating effects:

Highly corrosive! Damages skin and eyes.

Experimental/calculated data:

Skin corrosion/irritation

: Study scientifically not justified.

Serious eye damage/irritation

: Study scientifically not justified.

#### Respiratory/Skin sensitization

Assessment of sensitization:

No data available. As the substance is corrosive, conducting sensitization studies is not feasible.

Experimental/calculated data:

Study scientifically not justified.

*Information on: nitric acid ...% [C ≤ 70 %]*

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*Assessment of sensitization:*

*No data available. As the substance is corrosive, conducting sensitization studies is not feasible.*

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Germ cell mutagenicity

*Assessment of mutagenicity:*

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Carcinogenicity

*Assessment of carcinogenicity:*

No reliable data was available concerning carcinogenic activity. The chemical structure does not suggest a specific alert for such an effect.

*Information on: nitric acid ...% [C ≤ 70 %]*

*Assessment of carcinogenicity:*

*No reliable data was available concerning carcinogenic activity. The chemical structure does not suggest a specific alert for such an effect.*

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Reproductive toxicity

*Assessment of reproduction toxicity:*

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

*Information on: nitric acid ...% [C ≤ 70 %]*

*Assessment of reproduction toxicity:*

*The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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Developmental toxicity

*Assessment of teratogenicity:*

No data was available concerning toxicity to development. The chemical structure does not suggest a specific alert for such an effect.

*Information on: nitric acid ...% [C ≤ 70 %]*

*Assessment of teratogenicity:*

*No data was available concerning toxicity to development. The chemical structure does not suggest a specific alert for such an effect.*

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Specific target organ toxicity (single exposure)

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Assessment of STOT single:

Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

After repeated administration the prominent effect is the induction of corrosion.

*Information on: nitric acid ...% [ $C \leq 70$  %]*

*Assessment of repeated dose toxicity:*

*After repeated administration the prominent effect is the induction of corrosion.*

#### Aspiration hazard

Study does not need to be conducted.

#### Other relevant toxicity information

The toxicity of the product is based on its corrosivity. Inhalation of decomposition products can lead to lung oedema.

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

The ecotoxicological effects are solely caused by the pH.

Toxicity to fish:

LC50 (96 h) 12.5 mg/l pH 3,7, *Salmo gairdneri*, syn. *O. mykiss* (static)

Literature data. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Aquatic invertebrates:

EC50 (48 h) pH 4,4, *Ceriodaphnia dubia* (other, semistatic)

The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Aquatic plants:

Study not necessary due to exposure considerations.

Microorganisms/Effect on activated sludge:

Study not necessary due to exposure considerations.

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Chronic toxicity to fish:

No observed effect concentration (30 d) 58 mg/l, Pimephales promelas (OPP 72-4 (EPA-Guideline), static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (35 d) pH 6,14 - 8,3, Ceriodaphnia dubia (other, other)

*Information on: nitric acid ...% [C ≤ 70 %]*

*Assessment of aquatic toxicity:*

*There is a high probability that the product is not acutely harmful to aquatic organisms.*

*The ecotoxicological effects are solely caused by the pH.*

*Information on: nitric acid ...% [C ≤ 70 %]*

*Toxicity to fish:*

*LC50 (96 h) 12.5 mg/l pH 3,7, Salmo gairdneri, syn. O. mykiss (static)*

*Literature data. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.*

*Information on: nitric acid ...% [C ≤ 70 %]*

*Aquatic invertebrates:*

*EC50 (48 h) pH 4,4, Ceriodaphnia dubia (other, semistatic)*

*The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.*

*Information on: nitric acid ...% [C ≤ 70 %]*

*Aquatic plants:*

*Study not necessary due to exposure considerations.*

Assessment of terrestrial toxicity:

No data available.

Study not necessary due to exposure considerations.

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Inorganic product which cannot be eliminated from water by biological purification processes. Can be oxidized to nitrate, or be reduced to nitrogen, by microorganisms.

Elimination information:

not applicable

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

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Study scientifically not justified.  
Information on Stability in Water (Hydrolysis):  
Study scientifically not justified.

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:  
Accumulation in organisms is not to be expected.

Bioaccumulation potential:  
Study scientifically not justified.

### 12.4. Mobility in soil

Assessment transport between environmental compartments:  
Volatility: The substance will not evaporate into the atmosphere from the water surface.  
Adsorption in soil: Adsorption to solid soil phase is not expected. Under environmental conditions, the substance will almost completely be in its charged form.

### 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): PBT assessment does not apply. Not applicable for inorganic substances.

### 12.6. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.7. Additional information

Other ecotoxicological advice:  
Do not release untreated into natural waters. Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Contact manufacturer regarding recycling.  
Contact waste centre regarding recycling.  
Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

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This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Transport containers should be completely emptied and returned.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN2031  
UN proper shipping name: NITRIC ACID  
Transport hazard class(es): 8, 5.1  
Packing group: II  
Environmental hazards: no  
Special precautions for user: Tunnel code: E

RID

UN number or ID number: UN2031  
UN proper shipping name: NITRIC ACID  
Transport hazard class(es): 8, 5.1  
Packing group: II  
Environmental hazards: no  
Special precautions for user: None known

### Inland waterway transport

ADN

UN number or ID number: UN2031  
UN proper shipping name: NITRIC ACID  
Transport hazard class(es): 8, 5.1  
Packing group: II  
Environmental hazards: no  
Special precautions for user: None known

### Transport in inland waterway vessel

UN number or ID number: UN2031  
UN proper shipping name: NITRIC ACID  
Transport hazard class(es): 8, 5.1, N3  
Packing group: II



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Environmental hazards:	yes
Type of inland waterway vessel:	N
Cargo tank design:	2
Cargo tank type:	3

### **Sea transport**

#### IMDG

UN number or ID number:	UN 2031
UN proper shipping name:	NITRIC ACID
Transport hazard class(es):	8, 5.1
Packing group:	II
Environmental hazards:	no
	Marine pollutant: NO

Special precautions for user:

### **Air transport**

#### IATA/ICAO

UN number or ID number:	UN 2031
UN proper shipping name:	NITRIC ACID
Transport hazard class(es):	8, 5.1
Packing group:	II
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

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

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

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#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### 14.7. Maritime transport in bulk according to IMO instruments

Regulation:	IBC-Code
Product name:	Nitric acid (less than 70%)
Pollution category:	Y
Ship Type:	2

#### Further information

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

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## SECTION 15: Regulatory Information

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

#### Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions  
Number on List: 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
List entry in regulation: H2  
List entry in regulation: P8

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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The product contains a substance (Schedule 1A) regulated under United Kingdom Poisons Act 1972. This may result in obligations for your company according to the statutory requirements of the aforementioned regulation and the respective national implementing regulations.

## 15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

## SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Ox. Liq.	Oxidising liquids
Met. Corr.	Corrosive to metals
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
H290	May be corrosive to metals.
H272	May intensify fire; oxidizer.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.

### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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## Annex: Exposure Scenarios

### Index

#### 1. Manufacture of substance, Industrial applications

IS; IS, SU4, SU8, SU9, SU10, SU12, SU14, SU15, SU16; ERC1, ERC2, ERC4, ERC6a, ERC6b, ERC6d, ERC7; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15; PC7, PC12, PC14, PC15, PC19, PC20, PC33, PC35, PC37, PC0

#### 2. Professional applications

PW; SU1, PW; ERC8a, ERC8b, ERC8e; PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19; PC12, PC14, PC15, PC20, PC21, PC35

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### 1. Short title of exposure scenario

Manufacture of substance, Industrial applications

IS; IS, SU4, SU8, SU9, SU10, SU12, SU14, SU15, SU16; ERC1, ERC2, ERC4, ERC6a, ERC6b, ERC6d, ERC7; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15; PC7, PC12, PC14, PC15, PC19, PC20, PC33, PC35, PC37, PC0

### Control of exposure and risk management measures

Contributing exposure scenario	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	nitric acid ...% [C ≤ 70 %] Content: ≥ 0 % - ≤ 75 %
Physical state	liquid
Vapour pressure of the substance during use	61 hPa
Duration and Frequency of activity	Application duration: 480 min 5 days per week
Risk Management Measures	
Avoid frequent and direct contact with substance. Ensure that the task is not carried out overhead. Ensure minimization of manual phases	
Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable working clothes.	

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Risk Management Measures are based on qualitative risk characterisation.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.001 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0008
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php">http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	nitric acid ...% [C ≤ 70 %] Content: ≥ 0 % - ≤ 75 %
Physical state	liquid
Vapour pressure of the substance during use	61 hPa
Duration and Frequency of activity	Application duration: 480 min 5 days per week
<b>Risk Management Measures</b>	
Avoid frequent and direct contact with substance. Ensure that the task is not carried out overhead. Ensure minimization of manual phases	
Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable working clothes.	
Risk Management Measures are based on qualitative risk	

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characterisation.	
<b>Exposure estimate and reference to its source</b>	
PROC3, PROC8b, PROC9, PROC13, PROC14, PROC15	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.01 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0077
Assessment method	Qualitative assessment
	Worker - dermal
PROC4, PROC5, PROC8a, PROC10	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.05 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.0385
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php">http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	nitric acid ...% [C ≤ 70 %] Content: ≥ 0 % - ≤ 75 %
Physical state	liquid
Vapour pressure of the substance during use	61 hPa
Duration and Frequency of activity	Application duration: 480 min 5 days per week
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Wear suitable respiratory protection.	Effectiveness: 95 %
Alternatively:, Respiratory protection is not required., Reduce duration of activity to less than 15 min	
Avoid skin contact. Avoid frequent and direct contact with substance. Ensure minimization of manual phases	
Use suitable chemically resistant gloves. Use suitable eye protection. Wear suitable working clothes.	
Risk Management Measures are based on qualitative risk characterisation.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.05 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0.0385
	In case suitable respiratory protection is used.
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.077
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php">http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	Substance will disassociate upon contact with water, the only effect is the pH effect, therefore after passing through the STP exposure is considered negligible and with no risk

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## 2. Short title of exposure scenario

Professional applications

PW; SU1, PW; ERC8a, ERC8b, ERC8e; PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19; PC12, PC14, PC15, PC20, PC21, PC35

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. PROC19: Manual activities involving hand contact Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	nitric acid ...% [C ≤ 70 %] Content: ≥ 0 % - ≤ 75 %
Physical state	liquid
Vapour pressure of the substance during use	61 hPa
Duration and Frequency of activity	Application duration: 480 min 5 days per week



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Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	
Personal measures have to be applied in case of potential exposure towards spray or dust only.	
Avoid frequent and direct contact with substance. Avoid skin contact. Ensure minimization of manual phases	
Use suitable chemically resistant gloves. Use suitable eye protection. Wear suitable working clothes.	
Risk Management Measures are based on qualitative risk characterisation.	
<b>Exposure estimate and reference to its source</b>	
PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC19	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.05 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.04
Assessment method	Qualitative assessment
	Worker - dermal
PROC5, PROC14	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.08
PROC15	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.01 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.01
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php">http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	nitric acid ...% [C ≤ 70 %] Content: ≥ 0 % - ≤ 75 %
	nitric acid ...% [C ≤ 70 %] Content: ≥ 0 % - ≤ 75 %
Physical state	liquid
Vapour pressure of the substance	61 hPa

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during use	
Duration and Frequency of activity	Application duration: 480 min 5 days per week
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 97 %
Avoid frequent and direct contact with substance. Avoid skin contact. Ensure minimization of manual phases	
Use suitable chemically resistant gloves. Use suitable eye protection. Wear suitable working clothes.	
Risk Management Measures are based on qualitative risk characterisation.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.38
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php">http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	nitric acid ...% [C ≤ 70 %] Content: ≥ 0 % - ≤ 75 %
Physical state	liquid
Vapour pressure of the substance during use	61 hPa
Duration and Frequency of activity	Application duration: 240 min 5 days per week
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Avoid frequent and direct contact with substance. Avoid skin contact. Ensure minimization of manual phases	
Use suitable chemically resistant gloves. Use suitable eye protection. Wear suitable working clothes.	
Risk Management Measures are based on qualitative risk characterisation.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	MEASE
	Worker - inhalation, long-term - local
Exposure estimate	0.6 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.46
Assessment method	Qualitative assessment
	Worker - dermal
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php">http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	Substance will disossciate upon contact with water, the only effect is the pH effect, therefore after passing through the STP exposure is considered negligible and with no risk

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