

Safety Data Sheet

Nitric acid-d 65%w

Classification acc. to 29 CFR 1910.1200

Version number: GHS 6.0
Replaces version of: 2024-09-13 (GHS 5)

Revision: 2025-06-10

SECTION 1: Identification

1.1 Product identifier

Trade name Nitric acid-d 65%w
CAS number 13587-52-5

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

Relevant identified uses laboratory and analytical use
product and process oriented research and development
the product is intended for research, analysis and scientific education
scientific research and development
laboratory chemical

1.3 Details of the supplier of the safety data sheet

Zeochem AG Telephone: +41 44 922 93 93
Joweid 5, CH-8630 Rüti e-Mail: info@zeochem.com
Switzerland Website: https://www.zeochem.com

1.4 Emergency telephone number

| Poison center | | |
|---------------|--------------------------------------|-------------------------------------|
| Country | Name | Telephone |
| Switzerland | Toxzentrum Zürich / Tox. Info Suisse | +41 44 251 51 51 / CH: 145 - 24h/7d |
| United States | CHEMTREC USA | +1 800 424 9300 - 24h/7d |

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|--|----------|---------------------------|------------------|
| A.1I | acute toxicity (inhal.) | 3 | Acute Tox. 3 | H331 |
| A.2 | skin corrosion/irritation | 1A | Skin Corr. 1A | H314 |
| A.3 | serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |
| B.16 | substance or mixture corrosive to metals | 1 | Met. Corr. 1 | H290 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

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- Signal word danger

2.2.1.2 Pictograms

| | |
|--------------|--|
| GHS05, GHS06 |   |
|--------------|--|

| Hazard statements | |
|-------------------|---|
| H290 | may be corrosive to metals |
| H314 | causes severe skin burns and eye damage |
| H331 | toxic if inhaled |

| Precautionary statements | |
|--------------------------|---|
| P234 | keep only in original container |
| P260 | do not breathe dusts or mists |
| P271 | use only outdoors or in a well-ventilated area |
| P280 | wear eye protection/face protection |
| P301+P330+P331 | if swallowed: Rinse mouth. Do NOT induce vomiting |
| P303+P361+P353 | if on skin (or hair): 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 rinsing |
| P310 | immediately call a poison center/doctor |
| P321 | specific treatment (see on this label) |
| P363 | wash contaminated clothing before reuse |
| P390 | absorb spillage to prevent material damage |
| P403+P233 | store in a well-ventilated place. Keep container tightly closed |
| P405 | store locked up |
| P406 | store in corrosive resistant container with a resistant inner liner |
| P501 | dispose of contents/container in accordance with local/regional/national/international regulations |

- Hazardous ingredients for labelling nitric acid ... %

2.3 Other hazards

Hazards not otherwise classified

Corrosive to the respiratory tract.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

Identifiers

| | |
|-------------------|------------|
| CAS No | 13587-52-5 |
| Molecular formula | DNO3 |
| Molar mass | 64 g/mol |

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|-------------------|----------------------|-----|--|------------|
| nitric acid ... % | CAS No 13587-52-5 | 65 | Acute Tox. 3 / H331 Skin Corr. 1A / H314 Eye Dam. 1 / H318 Ox. Liq. 2 / H272 Met. Corr. 1 / H290 | |
| Deuterium oxide | CAS No 7789-20-0 | 35 | | |

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

Hazardous combustion products

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Neutralization techniques. Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Store in a dry place.

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- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.
- Handling of incompatible substances or mixtures
Do not mix with alkali.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Corrosive conditions
Store in corrosive resistant container with a resistant inner liner.
- Ventilation requirements
Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.
- Packaging compatibilities
Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|---------------|-----------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|-------------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
| US | nitric acid | 7697-37-2 | PEL (CA) | 2 | 5 | 4 | 10 | | | | Cal/OSH A PEL |
| US | nitric acid | 7697-37-2 | REL | 2 (10 h) | 5 (10 h) | 4 | 10 | | | | NIOSH REL |
| US | nitric acid | 7697-37-2 | TLV® | 2 | | 4 | | | | | ACGIH® 2023 |
| US | nitric acid | 7697-37-2 | PEL | 2 | 5 | | | | | | 29 CFR 1910.10 00 |

Notation

- Ceiling-C ceiling value is a limit value above which exposure should not occur
- STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
- TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

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Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

Nitrile

IIR: isobutene-isoprene (butyl) rubber

- Breakthrough times of the glove material

>30 minutes (permeation: level 2)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|----------------------------|
| Physical state | liquid |
| Color | transparent - light yellow |
| Particle | not relevant (liquid) |
| Odor | characteristic |

Other safety parameters

| | |
|---|-----------------------|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 101 °C |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 20.6 mmHg at 25 °C |

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| | |
|-----------------|-----------------------------------|
| Density | 1.35 g/cm³ |
| Vapor density | this information is not available |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | not determined |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

9.2 Other information

| | |
|------------------|-------------|
| Refractive index | 1.4 (20 °C) |
|------------------|-------------|

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Bases

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Toxic if inhaled.

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- Acute toxicity estimate (ATE)
Inhalation: vapor >2.65 mg/l/4h

| Acute toxicity estimate (ATE) of components | | | |
|---|------------|-------------------|---------------|
| Name of substance | CAS No | Exposure route | ATE |
| nitric acid ... % | 13587-52-5 | inhalation: vapor | >2.65 mg/l/4h |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Corrosive to the respiratory tract.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

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12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials. Regeneration of acids.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| DOT | UN 2031 |
| IMDG-Code | UN 2031 |
| ICAO-TI | UN 2031 |

14.2 UN proper shipping name

| | |
|-----------|-------------|
| DOT | Nitric acid |
| IMDG-Code | NITRIC ACID |
| ICAO-TI | Nitric acid |

14.3 Transport hazard class(es)

| | |
|-----------|---------|
| DOT | 8 (5.1) |
| IMDG-Code | 8 (5.1) |
| ICAO-TI | 8 (5.1) |

14.4 Packing group

| | |
|-----------|----|
| DOT | II |
| IMDG-Code | II |
| ICAO-TI | II |

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

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Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

| | |
|--|--|
| Particulars in the shipper's declaration | UN2031, Nitric acid, 8 (5.1), II |
| Reportable quantity (RQ) | 1,538 lbs (698 kg) (nitric acid ... %) |
| Danger label(s) | 8+5.1 |



| | |
|-------------------------|----------------------------------|
| Special provisions (SP) | B2, B47, B53, IB2, IP15, T8, TP2 |
| ERG No | 157 |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|------------------|-------|
| Marine pollutant | - |
| Danger label(s) | 8+5.1 |



| | |
|--------------------------|-----------|
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| EmS | F-A, S-Q |
| Stowage category | D |
| Segregation group | 1 - Acids |

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

| | |
|-----------------|-------|
| Danger label(s) | 8+5.1 |
|-----------------|-------|



| | |
|--------------------------|----|
| Special provisions (SP) | A1 |
| Excepted quantities (EQ) | E0 |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

| | |
|------------------------------------|--|
| Toxic Substance Control Act (TSCA) | all ingredients are listed (ACTIVE) or exempt from listing |
|------------------------------------|--|

Superfund Amendment and Reauthorization Act (SARA TITLE III)

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- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

| The List of Extremely Hazardous Substances and Their Threshold Planning Quantities | | | | |
|--|-----------|-------|------------------------------|--------------------------------------|
| Name of substance | CAS No | Notes | Reportable quantity (pounds) | Threshold planning quantity (pounds) |
| nitric acid ... % | 7697-37-2 | | 1,000 | 1000 |

- Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings | | | |
|--|-----------|---------|----------------|
| Name of substance | CAS No | Remarks | Effective date |
| nitric acid ... % | 7697-37-2 | | 1987-01-01 |

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------|-----------|---------|----------------|----------------------|
| nitric acid ... % | 7697-37-2 | | 1 | 1000 (454) |

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act

| Name of substance | CAS No | Type of registration | Basis for listing | Threshold quantity (lbs) |
|-------------------|-----------|----------------------|-------------------|--------------------------|
| nitric acid ... % | 7697-37-2 | Toxic substance | b | 15000 |

Legend

b On EHS list, vapor pressure 10 mmHg or greater.

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|-------------------|-----------|---------------|---------------------|
| nitric acid ... % | 7697-37-2 | | OEHHA RELs |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------|-----------|----------|-----------------|---------------------|------------------------------------|
| nitric acid ... % | 7697-37-2 | | | | 1.0 % |

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- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|-------------------|-----------|------------|---------|
| nitric acid ... % | 7697-37-2 | A, N, O | |

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|-------------------|-----------|---------|-----------------|
| nitric acid ... % | 7697-37-2 | | CO R2 |

Legend

- CO Corrosive
- R2 Reactive - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No | Classification |
|------------------------|-----------|----------------|
| NITRIC ACID | 7697-37-2 | E |

Legend

- E Environmental hazard

- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|-------------------|-----------|------------|
| nitric acid ... % | 7697-37-2 | T, F |

Legend

- F Flammability (NFPA®)
- T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

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| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | / | none |
| Health | 3 | major injury likely unless prompt action is taken and medical treatment is given |
| Flammability | 0 | material that will not burn under typical fire conditions |
| Physical hazard | 2 | materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 0 | material that will not burn under typical fire conditions |
| Health | 3 | material that, under emergency conditions, can cause serious or permanent injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | OX | oxidizer that causes a severe increase in the burning rate of combustible materials with which it comes into contact |

National inventories

| Country | Inventory | Status |
|---------|------------|-------------------------------------|
| EU | REACH Reg. | all ingredients are listed |
| US | TSCA | all ingredients are listed (ACTIVE) |

Legend

REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 1.1 | CAS number: 13587-52-5 Alternative name(s) | CAS number: 13587-52-5 | yes |
| 12.5 | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of | Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$. | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---------------------------|---------------------------|-----------------|
| | ≥ 0.1%. | | |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--|
| H272 | May intensify fire; oxidizer. |
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.