

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 09.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.130340.00000
Product Name Nitric Acid %55-57
Cas no 7697-37-2

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

1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent. Scientific research and development.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Corrosive to metals, Category 1
Acute toxicity, Category 3, Inhalation
Skin Corrosion, Category 1A

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

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

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H272 May intensify fire; oxidizer.
H290 May corrode metals.
H314 Causes severe skin burns and eye damage.
H331 Toxic by inhalation.

Precautionary Statements (SEA)

Prevention


P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT try to vomit.
P304+P341 IF INHALED: If breathing is difficult, move victim to fresh air and keep in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.
P308+P313 IF exposed and concerned: Get medical advice/attention.



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SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

| | |
|---------------|---------------------|
| EC No | 231-714-2 |
| Molar mass | 63.01 g/mol |
| Cas No | 7697-37-2 |
| Concentration | (>= 53 % - < 58 %) |

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|-------------------------------|--|
| <i>General information</i> | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). |
| <i>Following inhalation</i> | Remove casualty to fresh air and keep warm and at rest.. |
| <i>Following skin contact</i> | Wash with plenty of water. Remove contaminated clothing. In case of skin reactions consult a doctor. |
| <i>Following eye contact</i> | In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist. |
| <i>Following ingestion</i> | Give up to two glasses of water. Get medical help immediately. Do not induce vomiting. |

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

May form free in case of fire: Nitrous oxide. In case of fire, dangerous flammable gases or vapors may develop. It has fire-increasing properties depending on oxygen. It is not flammable.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up


Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.



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6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Metal packaging should not be used.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Nitric acid (7697-37-2)

| | | |
|--------|--|--------------------|
| TR MAK | Acceptable maximum concentration (MAK) | 2 mbp 5 mg / m3 |
|--------|--|--------------------|

| | | |
|--------|---|----------------------|
| TR OEL | Another time unless specified, 15 for a minute not to be exceeded upper limit of exposure value (STEL): | 1 mbp 2.6 mg / m3 |
|--------|---|----------------------|

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Hand protection

Full contact

Glove material : Viton (R)

Glove thickness :0,70 mm

Break through time : >480 minute

Splash contact

Glove material : Natural rubber

Glove thickness :0,60 mm

Break through time : >100 minute


The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Acid-resistant protective clothing



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Respiratory protection

Required when vapors are generated.
Recommended filter type: E-(P3) filter

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|--|-----------------------------------|
| Physical state | Liquid |
| Colour | Light yellow |
| Odour | Stinging |
| Odour threshold | No information. |
| pH value | 1,9 - 4 20 °C |
| Melting point/freezing point | No information. |
| Freezing point | No information. |
| Initial boiling point and boiling range | 122 °C |
| Flash point | No information. |
| Evaporation rate | No information. |
| Flammability (solid, gas) | No information. |
| Upper/lower flammability or explosive limits | No information. |
| Upper/lower flammability or explosive limits | No information. |
| Vapour pressure | No information. |
| Vapour density | No information. |
| Density | 1,33-1,36 g/cm ³ 20 °C |
| Relative density | No information. |
| Water solubility (g/l) | Soluble. |
| Fat solubility (g/l) | No information. |
| Partition coefficient: n-octanol/water | No information. |
| Auto-ignition temperature | No information. |
| Decomposition temperature | No information. |

Viscosity

| | |
|----------------------|------------------------------------|
| Kinematic viscosity | No information. |
| Dynamic viscosity | No information. |
| Explosive properties | It is not classified as explosive. |
| Oxidising properties | none |

SECTION 10: Stability and Reactivity

10.1 Reactivity

It is a strong oxidizer.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Acetone, acetonitrile, acetylidene, alcohols, antimony hydride, arsenic hydride, organic substances, benzene, phosphides, anilines, amines, halogenated hydrocarbon, diethylether, dimethyl ether, hydrazines, nitro compounds, sulphides, dioxane, acetic acid, acetic anhydride, ethanol ethylene glycol, fluorine, formaldehyde, rubber, oils, hydrazine hydrate, hydrocarbons, copper, lithium silicide, organic solvents, manganese, cyanides, powdered metals, methanol, gasoline (petroleum), phosphorus hydrogen, anhydrides, reducing compounds, sulfur dioxide, There is a risk of explosion with boranes, thiocyanates, titanium, toluene, foreign materials, hydrogen peroxide, tin, sugars, xylene, dichloromethane.

There is a risk of explosion or formation of flammable gases or vapors with amines, ammonia, combustible materials, aldehydes, furfuryl alcohol, hydrogen iodide, potassium, lithium, magnesium, phosphides, sodium, hydrides, phosphorus, pyridine, hydrogen sulfate.

10.4 Conditions to avoid

No information available.


10.5 Incompatible materials

Cellulose, Metals

10.6 Hazardous decomposition products



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No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Symptoms: If swallowed, there is a risk of perforation of the esophagus and stomach with severe burning of the mouth and throat.

Acute inhalation toxicity

Symptoms: Burning of mucous membranes, Cough, Shortness of breath, Possible damages :, damage to respiratory system, After latency period :, Inhalation may cause edema of respiratory system.

Acute toxicity estimate: 4.62 mg / l; 4 hrs; steam

Skin irritation

Mixture causes severe burns.

Eye irritation

The mixture causes serious eye damage. Blindness risk!

11.2 Additional information

After receiving:

Bloody vomit, severe pain (risk of perforation!), Tissue damage, death.

The following applies to nitrites / nitrates in general: methaemoglobinaemia after ingestion of large quantities.

Handle in accordance with good industrial hygiene and safety practice.

Nitric acid

Acute inhalation toxicity

LC50 Rat:> 2.65 mg / l; 4 hrs; steam

OECD Test Guideline 403

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Biological effects:

Harmful effect due to pH change. Forms corrosive mixtures even when diluted. It does not cause biological oxygen depletion. It is dangerous for drinking water supplies.

Discharge into the environment should be prevented.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

| ADR | IMDG | IATA | ADN | RID |
|----------------|---------|---------|---------|---------|
| 14.1 UN number | | | | |
| UN 2031 | UN 2031 | UN 2031 | UN 2031 | UN 2031 |



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14.2 UN proper shipping name

NITRIC ACID other than red fuming, with less than 65% nitric acid.

NITRIC ACID other than red fuming, with less than 65% nitric acid.

NITRIC ACID other than red fuming, with less than 65% nitric acid.

NITRIC ACID other than red fuming, with less than 65% nitric acid.

NITRIC ACID other than red fuming, with less than 65% nitric acid.

14.3 Transport hazard class(es)

8

8

8

8

8



14.4 Packing group

II

II

II

II

II

14.5 Environmental hazards

YES

YES

YES

YES

YES

No information available.

No information available.

No information available.

No information available.

No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H272 May intensify fire; oxidizer.

H290 May corrode metals.

H314 Causes severe skin burns and eye damage.

H331 Toxic by inhalation.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information:

05069903686



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