

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.170520.00000
Product Name Sodium hypochlorite %6-14
Cas no 7681-52-9

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

1.2.1. Relevant identified uses

Industrial use.

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)

Skin Corrosion, Category 1B
Acute aquatic toxicity, Category 1

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)

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary Statements (SEA)

Prevention

P273 Avoid release to the environment.

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

Intervention

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT try to vomit.

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.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 09.08.2022 Version 2

TEKKİM

| | |
|---------------|---------------------|
| EC No | 231-668-3 |
| Molar mass | 74,44 g/mol |
| Cas No | 7681-52-9 |
| Concentration | (>= 10 % - < 20 %) |

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. Take off contaminated clothing. |
| <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. Do not try to neutralize. |

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

In case of fire it can be formed freely: Hydrogen chloride gas. It is not flammable. All-round fire can release dangerous vapours.

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.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 09.08.2022 Version 2

TEKKİM

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Protect from light. Metal containers should not be used. Use a valve cover or valve to provide gas outlet and balance the pressure.

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

Contains no substances with occupational exposure limit values.

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

Fully fitting safety glasses

Hand protection

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 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

Protective chlothing.

Respiratory protection

Required when vapors/aerosols are generated.

Recommended Filter type: Filter B-(P3)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

TEKKİM

Revision Date: 09.08.2022

Version 2

| | |
|--|-------------------------------------|
| Physical state | Liquid |
| Colour | Light yellow |
| Odour | Chlorine |
| Odour threshold | No information. |
| pH value | 12 - 13 20 °C |
| Melting point/freezing point | -20 °C |
| Freezing point | No information. |
| Initial boiling point and boiling range | 102 °C 1.013 hPa |
| Flash point | Not applicable. |
| Evaporation rate | No information. |
| Flammability (solid, gas) | No information. |
| Upper/lower flammability or explosive limits | Not applicable. |
| Upper/lower flammability or explosive limits | Not applicable. |
| Vapour pressure | 20 hPa 20 °C |
| Vapour density | No information. |
| Density | 1.22 - 1.26 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 | 2.8 mPa.s 20 °C |
| Explosive properties | Not classified as explosive. |
| Oxidising properties | none |

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

Sensitive to light. Sensitive to weather.

10.3 Possibility of hazardous reactions

There is a risk of explosion with acids, hydrochloric acid, nitrogenous gases, chlorine, nitric acid, cyanides, oxidizing agents, reducing compounds, oxalic acid, organic substances, methanol, urea, acetic anhydride, ammonia, amines, formic acid.

Risk of explosion or formation of flammable gases or vapors with arsenic.

Forms dangerous gas or vapor in contact with acids.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 09.08.2022 Version 2

TEKKİM

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: mucosal irritations, Cough, Shortness of breath, Possible damages:., damage of respiratory tract.

Skin irritation

The mixture causes burns.

Eye irritation

Mixture causes serious eye injury. Risk of blindness!

11.2 Additional information

Handle in accordance with safety and hygiene rules.

Components

Sodium hypochlorite solution

Acute oral toxicity

LD50 Rat: 8.200 mg/kg(IUCLID)

Skin irritation

Rabbit

Result: Causes burns. (External MSDS)

Eye irritation

Rabbit

Result: Causes burns (IUCLID)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Pimephales promelas (Carp juvenile): 0.08 mg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 0.04 mg/l; 48 hours (ECOTOX Database)

Toxicity to bacteria

EC50 Photobacterium phosphoreum: 100 mg/l; 15 minutes (Source)

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

Forms corrosive mixtures even when diluted.

Harmful effect due to pH change.

Discharge into the environment should be prevented.

SECTION 13: Disposal considerations



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 09.08.2022 Version 2

TEKKİM

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 1791 | UN 1791 | UN 1791 | UN 1791 | UN 1791 |
| 14.2 UN proper shipping name Hypochlorite solution | Hypochlorite solution | Hypochlorite solution | Hypochlorite solution | Hypochlorite solution |
| 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

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date:

Communication information:

Erhan DİLER

11.29.03 & 11 Şubat 2020

05069903686



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31