

Material Safety Data Sheet

It is prepared pursuant to 1907/2006/EC and Regulation on Information Forms on Harmful Substances and Mixtures (R.G. 13.12.2014-29204) .

Issue Date:04.11.2016
SDS Code:PIA-CX-007

Control Date:17.06.2020

1 Identification of Material / Mixture and Company / Distributor

1.1. Identification of Material / Mixture

Trade Name: CERMINET

1.2. Specified or recommended usage of substance/admixture

Cleaning liquid material to remove any traces of cement on ceramic or porcelain tiles.

1.3. Details of the supplier of the MSDS

Company name: Koramic Yapı Kimyasalları
Bozüyük OSB 10.Cad No : 3 Bozüyük/BİLECİK
Tel: +90 228 314 63 00
Fax: +90 228 314 63 05
SDS contact person:yasemin.karel@koramic.com.tr

1.4. Emergency Telephone: +90 228 314 63 00(On weekdays, during working hours)

NATIONAL POISON INFORMATION CENTER: 114

2. Hazard Identification

2.1. Classification of the substance or mixture

	H 290 May be corrosive to metals.
Skin Irr.2	H 315 Causes skin irritation.
Eye Irr.2	H 319 Causes serious eye irritation.
STOT Single Exp. 3	H 335 May cause respiratory irritation

2.2. Label Elements



GHS 05

Signal Word: Danger

H 290 May be corrosive to metals.

H 315 Causes skin irritation.



GHS 07

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H 319 Causes serious eye irritation.

H 335 May cause respiratory irritation

Precaution

P 280 Wear protective gloves / protective clothing / eye protection / face protection.

P 264 Wash with plenty of water thoroughly after handling.

Prevention

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

Storage

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

Disposal

P501 Dispose of contents/container according to local/national legislations.

2.3. Other Hazards

None.

3 Information on Composition / Contents

3.1. Materials

Not relevant information.

3.2. Mixtures

Material	CAS Number	Concentration (%)	H statements
Hydrochloric acid	7647-01-0	13-14	H 290 May be corrosive to metals. H 315 Causes skin irritation. H 319 Causes serious eye irritation. H 335 May cause respiratory irritation
Phosphoric acid	7664-38-2	1-2	Skin Corr. 1B; H314: C ≥ % 25 H 314 Get medical advice/attention if you feel unwell. Skin Irr. 2; H315: %10 ≤ C < %25 H 315 Causes skin irritation. Eye Irr. 2; H319: %10 ≤ C < %25 H 319 Causes serious eye irritation.

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4 First Aid Measures

4.1. Identification of First Aid Measures:

General information: Remove your contaminated clothes and wash them before reusing.

After breathing: Take out the victim to fresh air and hold it in a comfortable position for easy breathing. If coughing and other symptoms increase, consult medical attention.

After skin contact: Wash with cold water and soap with neutral pH or a mild detergent.

After eye contact: Continue to rinse for at least 15 minutes with eyelids open to remove all particles. Wash eyes thoroughly with water. Remove the contact lenses, if easy to remove and available. Keep rinsing.

If swallowing: Do not make the exposed person vomit. If he/she is conscious, make him/her drink plenty of water and call a doctor immediately. If the symptoms continue, call a doctor.

First-Aid self-protection: Protect your skin and eyes.

4.2 Most important symptoms and effects, both acute and delayed

It can cause irritation in the eyes and skin.

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

No information available.

5 Fire Fighting Measures

5.1. Extinguishing media:

Suitable extinguishing media : Water, CO₂, DCP, Sand, Chemical Foam Extinguisher

Unsuitable extinguishing media : No data available.

5.2. Special hazards arising from the substance or mixture

Hydrogene, which is potential explosive and combustive gas, could be released after contacting with metals. Explosive hydrogen concentration could be increase inside metal equipments. Under the fire conditions, hydrochloric acid fumes may be released.

5.3. Advice for firefighters

Use NIOSH approved respirator which includes full face and eye protector.

Remove containers from fireplace without risk if it's possible. Use water for keep the containers cool.

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6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

Use special respiration protection. Avoid breathing fume, vapor or gas of product.

See the section 8 for personal protection equipment.

6.2. Environmental precautions

Avoid mixing with drainage systems, soil or water.

6.3. Methods and materials for containment and cleaning

Absorb the spillage with a suitable absorbent and dispose as hazardous waste.

Keep the waste in suitable, well closed containers.

Use personal protection equipment.

6.4 References to other sections

Section to be reviewed: 13

7 Handling and Storage

7.1. Precautions for safe handling

Make sure that the necessary ventilation is done. Avoid dust and aerosol formation .Avoid contacting with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry, cool, well-ventilated place Keep away from open fire, heat, sunshine. Do not storage with oxidant and the materials which gives dangerous reaction. Keep the containers away from damage and storage closed and vertical position. Enclose with earth or other non-combustible materials and neutralize the spillage with lime or soda.

Avoid contacting with skin and clothes. Avoid vapor and vapor granule formation. Keep away from metals and materials which can give severe reaction. Do not allow to smoke, direct fire, sparkle formation to prevent hydrogen gas explosion which can occur with acid and metal reaction.

7.3. Specific final uses: Not specified.

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8 Exposure controls / personal protection

8.1. Control parameters

8.1.1. Occupational Exposure Limits

Name of Material	CAS No	Long-term TWA(8 hours) (ppm or mg/m ³)	Short-term STEL(15 mins) (ppm or mg/m ³)	Source
Hydrochloric acid	7647-01-0	5 ppm	10 ppm	About Health and Safety Preventions on Work with Chemical Materials-ANNEX I-Occupational Exposure Limits
Phosphoric acid	7664-38-2	1 mg/m ³	2 mg/m ³	About Health and Safety Preventions on Work with Chemical Materials-ANNEX I-Occupational Exposure Limits

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Transport the product according to industrial hygiene and safety orders. Wash your hands before and after work.

8.2.2. Personal Protective Equipment

Protect the respiratory system: For vapor and particles in the area, use NIOSH-certified mask.

Suitable personal protective equipments are: A filtered mask which covers all the face that is using for acids, positive pressure respirator or pneumatic mask.

Protection of skin: Wear rubber-covered uniform, rubber boot and smock. Use PVC or rubber gloves during transportation. Contaminated gloves must be disposed according to good laboratory practice and convenience orders.

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Eye protection: Use goggles resistant to chemicals, respirator or full-face mask. Generally accepted that contact lenses should not be used during working with chemicals, because of it causes to increase harm of injury.

9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Colorless
Odor: Nötr
Physical status: Liquid
Vapor pressure: 0,032 bar (31.5 % w/w)
Relative Density: 1,1 g/ml
pH: 1
Boiling point: 85-90 C°
Melting point/
Freezing point: Not applicable.
Solubility in water: Completely.

10 Stability and Reaction

10.1. Reactivity: React with most of metals and release hydrogen. It releases chloride with oxidizing agents, hydrogen with cyanide, hydrogen Sulphur with sulphurs, bichloromethyl ether with formaldehyde.

10.2. Chemical stability: It is stable under normal conditions.

10.3. Possibility of hazardous reactions: It gives dangerous reactions with most of metals.

10.4. Conditions to avoid: Avoid contact with humidity and heat.

10.5 Incompatible materials: Well-known metals, water, amines, metal oxides, acetic anhydride, propiolactone, vinyl acetate, mercurous sulfate, calcium phosphide, formaldehyde, alkalis, carbonates, strong bases, sulfuric acid, chlorosulfonic acid

10.6. Hazardous decomposition products: Hydrogen chloride, hydrogen, chloride

11 Toxicological Information

The information given is based on the data on components and on similar toxicological products.

11.1 Information on toxicological ethics

It occurs destruction on skin cells and primer irritative dermatitis. Alike respiration of vapor or particles

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cause different levels of harm on effected cells and increase sensitiveness on respiration diseases.

11.2 Acute toxicity

Rabbit LD 50: 900 mg/ kg

Rat LC50 : 3.124 ppm/h

Contact with respiration: Exposure 100 ppm hydrogen chloride on gas phase causes serious danger for life and health.If it have been exposed on gases or vapors,it could be cause cough,rhinitis,angina,difficulty in breathing,maze,weakness and difficulty in swallowing.Nose,throat,lung ducts or bronchus inflammation,after these,dropsy,dropsy on lung,headache,tachycardia,corrosion on teeth or nasal septum perforation could be followed after have been exposed on 5 ppm HCl. Chronic exposure could be cause corrosion on teeth,skin inflammation and diseases on digestion system.

Contact with skin:Suddenly exposure on concentrated acid causes pain,new cytogenesis with scar which colour is turning from brown to yellow and discoloration on skin.Prolonged exposure to low concentration repetitively causes dermatitis.

Contact with eyes:Vapor on aqueous solution with concentration of %32 is irritative for eyes.Degree of damage depends on period of contact,quantity and concentration of material.

Swallow: Swallowing could be cause to trauma on mouth,gullet and stomach.Ache,nausea,gall,vomiting,chill,shock and dehydration.

Carcinogenic effect: This material is not classified as carcinogen by American National Toxicology Agency or Occupational Health and Safety Management.

12 Ecological Information

- | | |
|---|---|
| 12.1. Toxicity | LC50 (96h) : Fish: 0,282 mg/l
Soluble in water.
When it neutralizes, it will not dangerous for environment. |
| 12.2. Persistence and degradability | No appropriate data. |
| 12.3. Bioaccumulative potential | No appropriate data.. |
| 12.4. Mobility in soil | Water solubility: Completely |
| 12.5. Results of PBT and assessments | It isn't listed as PBT or vPvB. |
| 12.6. Other adverse effects | Don't allow it to release in air.
See Section 6,7,13,14 and 15. |

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13 Disposal Information

13.1. Waste treatment methods: Wastes should be disposed of in accordance with national legislation. Don't drain away to surface water and tap water. If it's approved, recycle the wastewater or drain away to wastewater treatment facility after neutralization. Deliver empty bags to recycling companies that accept waste paper.

13.2 Additional Information: None.

14 Transportation Information

EINECS/ELINCS NO : 231-595-7

14.1 UN number:

ADR/RID: 1789

IMDG: 1789

IATA: 1789

14.2 Suitable UN transportation name:

ADR/RID: HİDROKLORİK ASİT

IMDG: HYDROCHLORIC ACID

IATA: Hydrochloric acid

14.3 Transportation hazardous classification(s) :

ADR/RID: 8

IMDG: 8

IATA: 8

14.4 Group of packaging:

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental damages:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for users : Not available information.

14.7 MARPOL 73/78 appendix II and bulk transportation according to IBC code: Not applicable.

15 Regulatory information

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

This safety data sheet has been prepared / approved by accredited and authorized personnel in accordance with the requirements of the Regulation on Safety Data Sheets on Hazardous Substances and

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Mixtures (13/12 / 2014-29204). The Regulation on Classification, Labeling and Packing of the Articles and Mixtures dated 11/12/2013 has been taken into consideration in the classification.

16 Other Information

The information contained in this Safety Data Sheet is provided only for the latest information and findings. However, neither do they constitute a warranty nor do they constitute a contractual legal relationship. The information provided is for the safe storage, handling, transport and disposal of the product mentioned in this safety data sheet. This information is not used for other products.

16.1. Safety Data Sheet Prepared by:

Prepared by: Yasemin KAREL

Certificate no: NBC/01.146.05

Certificate validity date : 17.01.2021

16.2. Relevant Harmfulness and Precautionary Statements

H 290 May be corrosive to metals.

H 315 Causes skin irritation.

H 319 Causes serious eye irritation.

H 335 May cause respiratory irritation

P 280 Wear protective gloves / protective clothing / eye protection / face protection.

P 264 Wash with plenty of water thoroughly after handling.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

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

P501 Dispose of contents/container according to local/national legislations.

16.3. Abbreviations

ACGIH

American Conference of Governmental
Industrial Hygienist

ADR

European Agreement on Carriage of
Dangerous Goods by Road

CLP

Regulation on the Classification, Labeling and
Packing of Chemicals

DSD

Dangerous Goods Regulation (EC)

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IARC

International Agency for Cancer Research

IATA

International Air Transport Association

ICAO

International Civil Aviation Authority

IDLHs

Dangerous for Life or Health Concentrations

IMDG

International Maritime Rules for Dangerous Goods

mg/m³

The amount in milligrams of the substance found in 1 m³ of air at 20 ° C and 101.3 KPa. (760 mm mercury pressure).

NIOSH

National Institute for Occupational Health and Safety

NTP

National Toxicology Program (USA)

OSHA

Occupational Safety and Health Administration (USA)

PEL

Permissible Exposure Limit

ppm

Amount in milliliters of 1 m³ of airborne material (ml / m³)

RID

International Regulations for the Transport of Dangerous Goods by Rail

SEA

Regulation (TR) on Classification, Labeling and Packing of the Articles and Mixtures No. 28848 (Muk.) Dated 11 December 2013

STEL

Unless otherwise specified, the exposure upper limit value that should not be exceeded for a period of 15 minutes.

TWA

Time-weighted average measured or calculated for the 8-hour reference time