

This sheet is regulated appropriate to "Regulation On Preparation And Distribution Of Safety Data Sheets Of Hazardous Substances and Mixtures" dated December 26th, 2008, reiterated No. 27092, of the Ministry of Environment and Forestry.

1. SUBSTANCE/MIXTURE AND COMPANY IDENTIFICATION

1.1. IDENTIFICATION OF SUBSTANCE/MIXTURE

| | |
|-----------------------------|--|
| Commercial Name | G-FIX-FLEX / Adhesive For Tiles |
| Uses | Normal setting deformable cement based tile adhesive with reduced slip and extended open time (C1TES1 class) |
| Not Recommended Uses | No proper information |

1.2. SAFETY DATA SHEET SUPPLIER INFORMATION

| | |
|-----------------|--|
| Supplier | NUR KİREÇ SAN. TİC. VE PAZ. LTD. ŞTİ. Address: Çimento Bulvarı No.13 Yüreğir / Adana/ Türkiye Tel: +90 322 332 96 46 E-Mail: nurkirec@nurkirec.com.tr |
|-----------------|--|

1.3. CONTACT PERSON NUR KİREÇ SAN. TİC. VE PAZ. LTD ŞTİ. Tel: +90 322 332 96 46

1.4. EMERGENCY PHONE NUMBERS

Nur Kireç : +90 322 332 96 46
National Poison Information Center : 114
Emergency Medical Services: 112
Police : 155
Gendarme: 156

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF SUBSTANCE/MIXTURE

Irritating to eyes.



GHS05

GHS07

Classification (27092 T.C.)

Physical and Chemical Hazards

Human Health Serious eye damage / irritation, Category 2
Skin corrosion / irritation, Category 2
Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation, Category 3

Environment Not classified.

Classification (T.C 28848/2013)

* The full text of all (H) Clauses and (P) Phrases is given in Section 16.

2.2. LABEL ITEMS

Special Labeling Of Certain Mixtures: See Section15 for labeling according to (T.C. 27092).

Labeling According To T.C 28848/2013: -

2.3. OTHER HAZARDS

There isn't another anticipated hazard.

3. INFORMATION ON COMPOSITION/INGREDIENTS

3.2. MIXTURE

| Substance or Mixture | Content | Symbol | CAS No. | EC No. |
|----------------------|---------|--------------------------------------|------------|-----------|
| PORTLAND CEMENT | 25-40% | - | 65997-15-1 | 266-043-4 |
| CALCITE | 60-75% | GHS05, GHS07, H315, H318, H335 | 1317-65-3 | 207-439-9 |

* The full text of all (H) Clauses is given in Section 16.

About Composition: Data is given in accordance with the recent T.C. and A.B. regulations.

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

- Inhalation:** Immediately remove to fresh air contact. Consult a doctor if irritation persist.
- Ingestion:** Do not allow vomiting. Rinse mouth immediately. Drink for several glasses of milk or water. Seek medical advice immediately
- Skin:** Immediately remove contaminated clothing. Clean up contaminated clothing before reuse.
- Eyes:** Wash immediately with water while holding eyelids open. If irritation persists, consult a doctor. Continue rinsing.

4.2. ACUTE AND DELAYED IMPORTANT SYMPTOMS AND EFFECTS

- Inhalation:** Irritation of the upper respiratory tract.
- Ingestion:** Nausea, vomiting.
- Skin Contact:** May cause redness, irritation and drying of the skin at long term contact.
- Eye Contact:** Irritation of eyes and mucous membranes.

4.3. FIRST SIGNS FOR MEDICAL TREATMENT AND SPECIAL TREATMENT NEED

Special treatment is not recommended. Treat through symptoms.

5. FIRE FIGHTING MEASURES

5.1. FIRE EXTINGUISHERS

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

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5.3. RECOMMENDATIONS FOR FIREFIGHTERS

Fight at a sheltered place or at a safe distance from the large/advanced fire. Do not forget the risk of re-emergence risk of fire and explosion. Do not forget the risk of toxic and corrosive gases occur. Ensure that people other than emergency personnel away from the fire area.

In case of minor fire, if the fire doesn't reach to the explosives, take away materials from the fire jumping area. Prevent the fire reach to the product using all possible fire-fighting equipments (water, fire extinguishing materials available).

Do not try to fight fires involving explosives. Evacuate all personnel to a predetermined safe area. Wear protective equipment and full protective clothing. Use respiratory apparatus, protective face mask, protective gloves and safety helmet while fire fighting.

6. MEASURES OF FORMATION ACCIDENT

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective clothing such as mentioned at Section 8 of this MSDS. Avoid contact with skin and eyes. Provide adequate ventilation.

6.2. ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, waterways or the ground.

6.3. METHODS AND MATERIALS FOR STORAGE AND CLEANING

Attach necessary protective devices. Ventilate. Collect and close safely put into containers. Put containers to a sturdy/safe place.

6.4. REFERENCES TO OTHER SECTIONS

See Section 8 for personal protection. See Section 11 for additional information about damage to health. See Section 13 for waste disposal.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Read and follow the manufacturer's recommendations. Avoid contact with skin and eyes. Do not eat, drink or smoke anything, during use. Consider the necessary chemical hygiene measures.

7.2. CONDITIONS FOR SAFE STORAGE INVOLVING DISPUTES

Keep away from foods, drinks and animal feeds. Protect it from physical damage or abrasion. Store it in a dry, cool and well-ventilated place. Do not store near heaters. Do not expose it to high temperatures. Keep away from strong shocks.

7.3. SPECIFIC LATEST USES

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Does not include substance with exposure limit.

8.2. EXPOSURE CONTROLS

Personal Protective Equipment:



Process Conditions:

Provide eyewash station, safety shower.

Technical Measures:

Provide adequate ventilation. Pay attention to the occupational exposure limits and minimize the risk of dust inhalation. Explosion-proof general and local exhaust ventilation.

Respiratory Protection Measures:

Use appropriate respiratory protection. Does not require during transport and daily use.

Hand Protection Measures:

If there is danger of skin contact use suitable protective gloves. It is recommended to wear gloves made of nitrile rubber, PVA or viton. The most suitable glove must be chosen in consultation with the glove supplier. Glove supplier will inform about permeability / degradation time of glove material.

Eye Protection Measures:

Protective goggles/face shield is recommended.

Skin Protection Measures:

If there is danger of skin contact wear apron or protective clothing.

Health Precautions:

DO NOT SMOKE IN WORKING AREA! Do not eat, drink and smoke anything during use. Keep separate and wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------|---|
| APPEARANCE | Grey Grains |
| DENSITY | 1,3 ± 0,1 g/cm ³ (varies according to particle size) |
| SOLUBILITY | Soluble |
| ODOR | Odorless |
| MIXTURE pH | 12,4 (Saturated Mixture) |
| BURNING POINT | - |

9.2. OTHER INFORMATION

Technical Specifications

| | |
|--|--|
| TRANSVERSE DEFORMATION | $2,5 \text{ mm} \leq S1 \leq 5,0 \text{ mm}$ |
| SLIP | $\leq 0,5 \text{ mm}$ |
| INITIAL ADHESION STRENGTH | $\geq 0,5 \text{ N/mm}^2$ |
| ADHESION STRENGTH AFTER IMMERSION BY HEAT | $\geq 0,5 \text{ N/mm}^2$ |
| ADHESION STRENGTH AFTER IMMERSION BY WATER | $\geq 0,5 \text{ N/mm}^2$ |
| ADHESION STRENGTH AFTER FREEZE-THAW | $\geq 0,5 \text{ N/mm}^2$ |
| ADHESION STRENGTH AFTER OPEN TIME | $\geq 0,5 \text{ N/mm}^2$ |
| OPEN TIME | 30 min. |
| REACTION TO FIRE | Class A1 |

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

The product is stable under normal handling and storage conditions.

10.2. CHEMICAL STABILITY/AVOID FROM

Shock and physical damage.

10.3. HAZARDOUS REACTION POSSIBILITY

No information.

10.4. CONDITIONS TO BE AVOIDED

-

10.5. MATERIALS TO BE AVOIDED

-

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

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11. TOXICOLOGICAL INFORMATION

| | |
|-----------------------------------|---|
| Toxicological Information: | No information. |
| Inhalation: | May cause irritation to the respiratory system. |
| Ingestion: | May cause discomfort if swallowed. Gastro-intestinal disorders including nausea symptoms. |
| Skin Contact: | Prolonged and frequent contact may cause redness and irritation. |
| Eye Contact: | Irritating to eyes. |

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

Substances in the product are not classified as dangerous for the environment. However, it can no be ignored the possibility of huge amount spills or frequently occurring spills can be harm to the environment.

12.2. PERSISTENCE AND DEGRADABILITY

There is no information about the biodegradability of the product.

12.3. BIOACCUMULATION POTENTIAL

There is no information about bioaccumulation of the product.

12.4. MOBILITY IN SOIL

Soluble in water.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Does not contain any components considered as PBT and vPvB.

12.6. OTHER ADVERSE EFFECTS

It may be hazardous to aquatic life.

13. DISPOSAL INFORMATION

General Information: Waste should be treated as subject to controlled waste. It should be disposed as shown by the local waste disposal authorities, in accordance with the provisions of Regulation No. 87/12028 at a licensed waste disposal area.

13.1. WASTE PROCESSING

Dispose of waste and residues in accordance with local authority requirements.
Refer to the expert disposal companies.

14. TRANSPORT INFORMATION

LABEL FOR COURIER:

14.1. UN NUMBER

GGVS, GGVE, ADR, RID
Class :

14.2. PROPER UN TRANSPORT NAME

Proper UN transport name

14.3. TRANSPORT HARMFULNESS CLASSES

ADR/RID/ADN Class: -
ADR/RID/ADN Class - Class 1: -
ADR Label No: -
IMDG Class: -
ICAO Class: -

14.4. PACKAGING GROUP

Not applicable.

14.5. ENVIRONMENTAL DAMAGE

None.

14.6. SPECIAL PRECAUTIONS FOR USERS

Not applicable.

14.7. PUBLIC TRANSPORTATION THROUGH ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not applicable.

15. REGULATORY INFORMATION

Labelling (27092 T.C.)



GHS05



GHS07

National Regulations

- T.C. Ministry of Environment and Forest, Dated 26 December 2008, No. 27092, Classification of Hazardous Substances and Preparations, Packaging and Labelling Regulations.
- Dated December 11, 2013, No. 28848, Classification of Substances and Mixtures, Labelling and Packaging Regulation.
- Regulations on Production, Supply and Uses Restrictions of Certain Hazardous Substances, Mixtures and Goods.
- Regulation on Health and Safety Precautions of Works with Chemical Substances.
- Regulations on the Use of Personal Protective Equipment in the Workplace.
- Regulations on Control of Hazardous Wastes.
- No. 6331 Occupational Health and Safety Act.

16. OTHER INFORMATION

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|-------------------------------|--|
| Resources Information: | This MSDS is arranged with the information received from the producer company. |
| Revision Information: | Rev.00 |
| Editor: | Handan KAVI - Certified Safety Data Sheet Editor |
| Date of Issue: | 14.09.2015 |
| Date of Preparation: | 14.09.2015 |
| Issue Number: | 00 |
| H315: | Causes skin irritation. |
| H318: | Causes serious eye damage. |
| H335: | May cause respiratory irritation. |
| P280: | Wear protective gloves / protective clothing / eye protection / face protection. |
| P305+P351+P338: | In case of contact with eyes, rinse carefully with water a few minutes. If easy and possible, remove contact lenses. Continue rinsing. |



G-FIX-FLEX

MATERIAL SAFETY DATA SHEET (MSDS)



ADDITIONAL INFO

This MSDS is valid for up to 3 years through the requirements of legislation. After this date, updated according to the new classification and labeling provisions, new version must be used.

DISCLAIMER

This information relates only to the specific material and it should not be used for mixtures of this product with other materials or for any process. The information in this document is within the company's high level of knowledge and belief, accurate and reliable information as of the date indicated. To be convinced about the suitability of this information for their own use is user's own responsibility.