

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/23/2001

Reviewed on 08/23/2001

1 Identification of substance

- **Product details**
- **Trade name:** **GALKLEAN 2000**
- **Manufacturer/Supplier:**
Gal-Kim
Ikitelle Org. K. San. Bolgesi
Galvano Teknik San. Sitesi
B-Blok No 30-32 San Sitesi
Istanbul
- **Information department:** H. Yarcan (90 212) 549 29 21-22

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

6834-92-0	disodium metasilicate	84.0%
1310-73-2	sodium hydroxide	12.0%
60-00-4	edetic acid	1.5%
	anionisches Tensid	1.0%

3 Hazards identification

- **Hazard description:**



Corrosive

- **Information pertaining to particular dangers for man and environment:**

Causes severe burns.
Irritating to respiratory system.

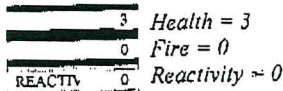
- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



- **WHMIS-ratings (scale 0 - 4)**



4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Thorough dusting.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Storage class:**
- **Class according to regulation on flammable liquids:** Void

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

Components with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide

ACGIH TLV	Short-term value: C 2 mg/m ³
NIOSH REL	Short-term value: C 2 mg/m ³
OSHA PEL	2 mg/m ³

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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Protection of hands:



Protective gloves

Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- **Form:** Solid
- **Color:** White
- **Odor:** Characteristic

- **Change in condition**
 Melting point/Melting range: Undetermined.
 Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density:** Not determined.

- **Solubility in / Miscibility with Water:** Soluble.

- **pH-value at 20°C (68°F):** 13

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions:** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

6834-92-0 disodium metasilicate

Oral LD50 1280 mg/kg (rat)

1310-73-2 sodium hydroxide

Oral LD50 2000 mg/kg (rat)

Primary irritant effect:

- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.

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Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive.

Irritant.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

Product:

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

DOT regulations:



Hazard class:

8

Identification number:

UN3262

Packing group:

II

Proper shipping name (technical name): Corrosive solid, basic, inorganic, n.o.s., sodium hydroxide

Land transport ADR/RID (cross-border):



ADR/RID class:

8 Corrosive substances

Item:

46b

Danger code (Kemler):

80

UN-Number:

3262

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· **Description of goods:** 3262 Corrosive solid, basic, inorganic, n.o.s., sodium hydroxide

· **Maritime transport IMDG:**



· **IMDG Class:** 8
 · **Page:** 8150-1
 · **UN Number:** 3262
 · **Packaging group:** II
 · **EMS Number:** 8-15
 · **MFAG:** 760
 · **Marine pollutant:** No
 · **Proper shipping name:** Corrosive solid, basic, inorganic, n.o.s., sodium hydroxide

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 8
 · **UN/ID Number:** 3262
 · **Packaging group:** II
 · **Proper shipping name:** Corrosive solid, basic, inorganic, n.o.s., sodium hydroxide

15 Regulations

- **Product related hazard informations:**
The product has been classified and marked in accordance with directives on hazardous materials.
- **Hazard symbols:**
Corrosive
- **Hazard-determining components of labelling:**
disodium metasilicate
sodium hydroxide
- **Risk phrases:**
Causes severe burns.
Irritating to respiratory system.
- **Safety phrases:**
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately.
This material and its container must be disposed of as hazardous waste.
- **National regulations:**
- **Classification according to VbF:** Void
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Geschäftsleitung
- Contact: H. Yarcan (90 212) 549 29 21-22

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