

# Material Data Safety Sheet

According to 91/155/EEC

Hydrogen Peroxide 30%

Art. Nr. 31710

Updated: 03.08.2007

## 1 - Product and Company Information

Product Name HYDROGEN PEROXIDE 30%, Innerpackage: Glas Bottle

Product Number 31710

### Company:

Gatt-Koller GmbH

Swarovskistrasse 74

A-6067 Absam

Phone: 0043-5223-44216-0

Fax: 0043-5223-43216

Emergency Phone: 0049-551-19240

## 2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Harmful if swallowed. Risk of serious damage to eyes.

## 3 - Composition/Information on Ingredients

Product Name CAS # EC no Annex I Index Number

HYDROGEN PEROXIDE, 30% SOLUTION 7722-84-1 231-765-0 008-003-00-9

Ingredient Name Percent CAS # EC no Annex I

Index Number

HYDROGEN PEROXIDE 30 7722-84-1 231-765-0 008-003-00-9

Symbols: O-C

R-Phrases: 5-8-20/22-35

Heating may cause an explosion. Contact with combustible material may cause fire. Harmful by inhalation and if swallowed. Causes severe burns.

WATER 70 7732-18-5 231-791-2 None

Formula H<sub>2</sub>O<sub>2</sub>

Synonyms Albone 35 \* Albone 50 \* Albone 70 \* Albone 35CG

\* Albone 50CG \* Albone 70CG \* Hydrogen peroxide,

solution, 30% \* Interlox \* Kastone \* Perone 30 \*

Perone 35 \* Perone 50

## 4 - First Aid Measures

### AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

## 5 - Fire Fighting Measures

EXTINGUISHING MEDIA

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Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

## SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6 - Accidental Release Measures

### PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## 7 - Handling and Storage

### HANDLING

Directions for Safe Handling: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Conditions of Storage: Keep tightly closed.

## 8 - Exposure Controls / Personal Protection

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

## 9 - Physical and Chemical Properties

Appearance Physical State: Clear liquid

Color: Colorless

Property Value At Temperature or Pressure

pH N/A

BP/BP Range N/A

MP/MP Range N/A

Flash Point N/A

Flammability N/A

Autoignition Temp N/A

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Oxidizing Properties N/A  
Explosive Properties N/A  
Explosion Limits N/A  
Vapor Pressure N/A  
SG/Density 1.11 g/cm<sup>3</sup>  
Partition Coefficient N/A  
Viscosity N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
Evaporation Rate N/A  
Bulk Density N/A  
Decomposition Temp. N/A  
Solvent Content N/A  
Water Content N/A  
Surface Tension N/A  
Conductivity N/A  
Miscellaneous Data N/A  
Solubility N/A

## 10 - Stability and Reactivity

### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: .

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## 11 - Toxicological Information

RTECS NUMBER: MX0899000

### ACUTE TOXICITY

#### LDLO

Oral

Woman

2.626 mg/kg

Remarks: Gastrointestinal:Nausea or vomiting. Lungs, Thorax, or  
Respiration:Cyanosis. Behavioral:Coma.

#### LDLO

Oral

Man

1429 mg/kg

Remarks: Behavioral:Coma. Gastrointestinal:Changes in structure  
or function of esophagus. Gastrointestinal:Nausea or vomiting.

#### LD50

Skin

Rat

3000 mg/kg

#### LD50

Intravenous

Mouse

>50 GM/KG

#### LD50

Oral

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Rabbit

820 mg/kg

Remarks: Gastrointestinal:Peritonitis. Blood:Pigmented or nucleated red blood cells. Blood:Changes in leukocyte (WBC) count.

## SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

## TARGET ORGAN INFORMATION

Eyes. Respiratory system. Skin.

## CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Mouse

Route of Application: Oral

Exposure Time: 2Y

Result: Tumorigenic:Carcinogenic by RTECS criteria.

Gastrointestinal:Tumors.

Mouse

Route of Application: Oral

Exposure Time: 2Y

Result: Gastrointestinal:Tumors. Tumorigenic:Carcinogenic by RTECS criteria.

## IARC CARCINOGEN LIST

Rating: Group 3

## CHRONIC EXPOSURE - MUTAGEN

Human

9 UMOL/L

Cell Type: lymphocyte

DNA damage

Human

50 UMOL/L

Cell Type: Embryo

Other mutation test systems

Human

20 UMOL/L

Cell Type: Embryo

Cytogenetic analysis

Rat

50 UMOL/L

Cell Type: lymphocyte

DNA damage

Hamster

250 UMOL/L

Cell Type: ovary

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DNA inhibition  
Hamster  
60 UMOL/L  
Cell Type: ovary  
Cytogenetic analysis  
Hamster  
40 UMOL/L  
Cell Type: ovary  
Sister chromatid exchange  
Hamster  
1 MMOL/L  
Cell Type: lung  
Mutation in mammalian somatic cells.

## 12 - Ecological Information

No data available.

## 13 - Disposal Considerations

### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

## 14 - Transport Information

RID/ADR  
UN#: 2014  
Class: 5.1  
PG: II  
Subrisk: 8  
Proper Shipping Name: Hydrogen peroxide, aqueous solution  
IMDG  
UN#: 2014  
Class: 5.1  
PG: II  
Subrisk: 8  
Proper Shipping Name: Hydrogen peroxide, aqueous solution  
EMS-Number: F-H S-Q  
Marine Pollutant: No  
Severe Marine Pollutant: No  
IATA  
UN#: 2014  
Class: 5.1  
PG: II  
Subrisk: 8  
Proper Shipping Name: Hydrogen peroxide, aqueous solution  
Inhalation Packing Group I: No

## 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES  
ANNEX I INDEX NUMBER: 008-003-00-9

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INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22-41

Harmful if swallowed. Risk of serious damage to eyes.

S-PHRASES: 26-39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

COUNTRY SPECIFIC INFORMATION

NORWAY

Declaration Number: 68197

German Regulations

Water pollution class 1 (slightly polluting substance) VwVwS Annex. 4

Storage class VCI 5.1 B

## 16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Gatt-Koller GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

**Gatt-Koller GmbH**

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