

Safety Data Sheet

According to 1907/2006/EC, Article 31

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1/ Identification of substance:

· **Product details:**

· **Trade name:** Natural+™ Professional

· **Article number:** 607591-607592

· **Application of the substance / the preparation** - See point 3)

· **Manufacturer:**

GDF mbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany)

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2/ Hazards Identification

· **Hazard description:**



Xn Harmful

· **Information concerning to particular hazards to man and environment**

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 - Harmful if swallowed.

R 41 - Risk of serious damage to eyes.

· **Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **GHS label elements**



Danger

H272 - May intensify fire; oxidizer.



Danger

H318 - Causes serious eye damage.



Warning

H302 - Harmful if swallowed.

· **Prevention:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 - Keep/ Store away from clothing/ combustible materials.

P221 - Take any precaution to avoid mixing with combustibles.

· **Response:**

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

P310 - *Immediately call a POISON CENTER or doctor/physician.*

· **Disposal:**

P501 - *Dispose of contents/container in accordance with local/regional/national/ international regulations.*

3/ Composition/information on ingredients

· **Chemical characterization**

· **Description:** *Dental-bleaching based on hydrogen-peroxide*

· **Dangerous components:**

CAS: 7722-84-1 hydrogen peroxide solution 25 -50%

EINECS: 231-765-0 C, Xn, O; R 8-20/22-34

Danger: 2.13/1; 3.2/1A

Warning: 3.1.O/4, 3.1.I/4

CAS: 56-81-5 glycerol 2.5 -10%

EINECS: 200-289-5

CAS: 7757-79-1 potassium nitrate < 2.5%

EINECS: 231-818-8

O; R 8

Danger: 2.14/2

· **Additional information** *For the wording of the listed risk phrases refer to section 16.*

4/ First aid measures

· **General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation**

Supply fresh air; consult doctor in case of complaints.

· **After skin contact**

Immediately rinse with water.

· **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing**

Do not induce vomiting; call for medical help immediately.

5/ Fire fighting measures

· **Suitable extinguishing agents**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents** *Water with full jet.*

· **Protective equipment:** *No special measures required.*

6/ Accidental release measures

· **Person-related safety precautions:**

Not required

·Measures for environmental protection:

Dilute with plenty of water.

·Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

7/ Handling and storage

· Handling

· Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Substance / Product can reduce the ignition temperature of flammable substances.

· Storage

· Requirements to be met by storerooms and receptacles: *Store in refrigerator.*

· Information about storage in one common storage facility:

Store away from flammable substances.

Store away from reducing agents.

Store away from metals.

· Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

8 /Exposure controls and personal protection gear

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

· Ingredients with limit values that require monitoring at the workplace:

7722-84-1 hydrogen peroxide solution

OES *Short-term value: 2.8 mg/m³, 2 ppm*

Long-term value: 1.4 mg/m³, 1 ppm

56-81-5 glycerol

OES Long-term value: 10 mg/m³

· Additional information: *The lists valid during the making 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.

· Respiratory protection: *Not necessary if rooms is well-ventilated.*

· Protection of hands: *Acid resistant gloves.*

· Material of gloves *Natural rubber, NR*

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: *Tightly sealed goggles.*

· Body protection: *Acid resistant protective clothing.*

9/ Physical and chemical properties:

· General Information

Form: Pasty

Color: Colourless

Odor: Characteristic

· **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

· **Flash point:** Not applicable

· **Ignition temperature:** 400°C

· **Self-igniting:** Product is not selfigniting.

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

· **Vapor pressure at 20°C:** 23 hPa

· **Density at 20°C:** Not determined

· **Solubility in / Miscibility with Water:** Fully miscible

· **PH-value at 20°C:** 3

· **Viscosity:**

Dynamic at 20°C: 250000 mPas

· **Solvent content:**

Organic solvents: 0.0%

Water: 34.9%

10/ Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Materials to be avoided:**

· **Dangerous reactions**

Reacts with various metals

Reacts with reducing agents

Reacts with catalysts

Acts as an oxidizing agent on organic materials such as wood, paper and fats

· **Dangerous decomposition products:** No dangerous decomposition products known

11/ Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:** LD-50/dermal > 2000 mg/kg rab

· **Primary irritant effect:**

· **on the skin:** Slightly irritating.

· **on the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Harmful

Irritant

12/ Ecological information:

· **Information about elimination (persistence and degradability):**

· **Other information:**

The product is easily biodegradable.

· **Additional ecological information:**

· **General notes:**

Water Hazard class I (German Regulation) (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.

13/ Disposal considerations

· **Product:**

· **Recommendation**

Must be specially treated adhering to official regulations.

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

· **European waste catalogue**

06 13 99 wastes not otherwise specified

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14/ Transport information



· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** 5.1 (OC1) Oxidizing substances.

· **Danger code (Kemler):** -

· **UN-Number:** 2014

· **Packaging group:** II

· **Hazard label** 5.1+8

· **Description of goods:** 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION

· **Tunnel restriction code** E

· **Maritime transport IMDG:**



· **IMDG Class:** 5.1

· **UN Number:** 2014

· **Label** 5.1+8

· **Packaging group:** II

· **EMS Number:** F-A, S-Q

· **Marine pollutant:** No

· **Segregation groups** Peroxides

· **Proper shipping name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

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



- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 2014
- **Label** 5.1+8
- **Packaging group:** II
- **Proper shipping name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- **UN "Model Regulation":** UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

15/Regulations

· **Labeling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

Xn Harmful

· **Hazard-determining components of labeling:**

hydrogen peroxide solution

· **Risk phrases:**

22 - Harmful if swallowed.

41 - Risk of serious damage to eyes.

· **Safety phrases:**

17 - Keep away from combustible material.

23 - Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).

25 - Avoid contact with eyes.

26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

60 - This material and its container must be disposed of as hazardous waste.

· **National regulations**

· **Water hazard class:**

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

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.

· **Relevant R-phrases**

20/22 - Harmful by inhalation and if swallowed.

34 - Causes burns.

8 - Contact with combustible material may cause fire.

· **Department issuing MSDS**

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent