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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**

- **Trade name epex Clean**

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Solvents

- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer**
EPEX
Gutenbergstraße 12
D-73760 Ostfildern
Telefon +49 (0) 711 22086751
Telefax +49 (0) 711 22086752
eMail : mail@epex-info.de
- **Informing department:** Product safety department
- **1.4 Emergency telephone number:**
Poison Control Center, Mainz
Tel. 00 49 / 61 31 / 19 240

NZ Supplier
Robert Ziegler 2021 Limited
Tel : 027 4960 731
Fax : 09 818 8315
Email : rziegler2017@outlook.com

NZ National Poisons Centre
0800 764 766 (24 hours)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS07

- **Signal word** Warning

- **Hazard-determining components of labelling:**
Benzyl alcohol
hydrogen peroxide solution
- **Hazard statements**
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
- **Precautionary statements**
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P337+P313 If eye irritation persists: Get medical advice/attention.

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- ***2.3 Other hazards***
- ***Results of PBT and vPvB assessment***
- ***PBT:*** *Not applicable.*
- ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

- ***3.2 Mixtures***
- ***Description:*** *Mixture of the following components*

- Dangerous components:		
CAS: 100-51-6 EINECS: 202-859-9 Reg.nr.: 01-2119492630-38	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	25-50%
CAS: 108-32-7 EINECS: 203-572-1 Reg.nr.: 01-2119537232-48	propylene carbonate Eye Irrit. 2, H319	25-50%
CAS: 7722-84-1 EINECS: 231-765-0 Reg.nr.: 01-2119485845-22	hydrogen peroxide solution Ox. Liq. 1, H271; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412	2.5-10%
- Regulation (EC) No 648/2004 on detergents / Labelling for contents		
oxygen-based bleaching agents		5 - 15%

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

SECTION 4: First aid measures

- ***4.1 Description of first aid measures***
- ***General advice:***
Instantly remove any clothing soiled by the product.
In case of accident or indisposition consult a doctor immediately (if possible show this label)
- ***After inhalation***
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness bring patient into stable side position for transport.
- ***After skin contact***
Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.
- ***After eye contact*** *Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.*
- ***After swallowing*** *Do not induce vomiting; instantly call for medical help.*
- ***4.2 Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
- ***Information for doctor***
Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration. Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.
- ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
Carbon dioxide, extinguishing powder, water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide may be evolved if incomplete combustion occurs. Not classified as flammable but will burn.
Do not inhale explosion and combustion gases.
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.
Wear full protective suit with self-contained breathing apparatus.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep off unprotected persons
Avoid contact with skin, eyes and clothing. Do not breathe vapour. Ventilate contaminate area thoroughly. Shut off lecks, if possible without personal risk.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
If large amounts are released, the authorities must be informed.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Contaminated material has to be disposed as waste (see item 13).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.
Danger of burning is possible

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Pay attention to general rules of internal fire prevention.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage** Keep containers tightly closed. Store in cool, dry conditions.
- **Requirements to be met by storerooms and containers:**
Observe official regulations on storage and handling of water harzardous substances
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

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- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**	
7722-84-1 hydrogen peroxide solution (2.5-10%)	
WEL	Short-term value: 2.8 mg/m³, 2 ppm Long-term value: 1.4 mg/m³, 1 ppm

- **DNELs**		
100-51-6 Benzyl alcohol		
Oral	DNEL (population)	25 mg/kg bw/day (Acute - systemic effects)
		5 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	29 mg/kg bw/day (Acute - systemic effects)
		5.7 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	47 mg/kg bw/day (Acute - systemic effects)
		9.5 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	40 mg/m³ (Acute - systemic effects)
		8.11 mg/m³ (Long-term - systemic effects)
	DNEL (worker)	450 mg/m³ (Acute - systemic effects)
		90 mg/m³ (Long-term - systemic effects)

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

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from food, beverages and fodder.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.

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- **Body protection:**
Standard proctective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear inpenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**	
- **General Information**	
- **Appearance:**	
Form:	Fluid
Colour:	Colourless
- **Smell:**	Characteristic
- **Odour threshold:**	Not determined.
- **pH-value:**	Not determined.
- **Change in condition**	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 100 °C
- **Flash point:**	101 °C
- **Inflammability (solid, gaseous)**	Not applicable.
- **Ignition temperature:**	430 °C
- **Decomposition temperature:**	Not determined.
- **Self-inflammability:**	Product is not selfigniting.
- **Danger of explosion:**	Product is not potentially explosive
- **Critical values for explosion:**	
Lower:	1.3 Vol %
Upper:	21.0 Vol %
- **Vapour pressure at 20 °C:**	0.1 hPa
- **Density at 20 °C**	1.121 g/cm³
- **Relative density**	Not determined.
- **Vapour density**	Not determined.
- **Evaporation rate**	Not determined.
- **Solubility in / Miscibility with**	
Water:	Partly miscible
- **Partition coefficient (n-octanol/water):**	Not determined.
- **Viscosity:**	
dynamic:	Not determined.
kinematic:	Not determined.
- **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- ***10.3 Possibility of hazardous reactions*** *No dangerous reactions known*
- ***10.4 Conditions to avoid*** *No further relevant information available.*
- ***10.5 Incompatible materials:*** *strong oxidizing agents*
- ***10.6 Hazardous decomposition products:***
Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.
Formation of carbon monoxide and carbon dioxide in case of fire.

SECTION 11: Toxicological information

- ***11.1 Information on toxicological effects***
- ***Acute toxicity***

- ***LD/LC50 values that are relevant for classification:***		
100-51-6 Benzyl alcohol		
Oral	*LD50*	*1230 mg/kg (rat)*
Dermal	*LD50*	*2000 mg/kg (rbt)*

- ***Primary irritant effect:***
- ***Skin corrosion/irritation***
Slight irritant, prolonged or repeated exposure removes lipid skin film and may cause skin irritation,
- ***Serious eye damage/irritation*** *Irritant effect.*
- ***Respiratory or skin sensitisation*** *No sensitizing effect known.*

SECTION 12: Ecological information

- ***12.1 Toxicity***

- ***Aquatic toxicity:***	
100-51-6 Benzyl alcohol	
EC 50 / 48 h	*230 mg/l (Daphnia magna)*
EC 50 / 72 h	*770 mg/l (Algae)*
LC 50 / 96 h	*460 mg/l (fish)*

- ***12.2 Persistence and degradability*** *No further relevant information available.*
- ***12.3 Bioaccumulative potential*** *No further relevant information available.*
- ***12.4 Mobility in soil*** *No further relevant information available.*
- ***Additional ecological information:***
- ***General notes:*** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- ***12.5 Results of PBT and vPvB assessment***
- ***PBT:*** *Not applicable.*
- ***vPvB:*** *Not applicable.*
- ***12.6 Other adverse effects*** *No further relevant information available.*

SECTION 13: Disposal considerations

- ***13.1 Waste treatment methods***
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- ***Recommendation***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Contaminated water to separate by separator and dispose off in line with administrative regulations.
- ***Waste disposal key number:***
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- ***Uncleaned packagings:*** *Disposal must be made according to official regulations.*
- ***Recommendation:***
After complete emptying and cleaning, send to be reconditioned or recycled.
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

SECTION 14: Transport information

- ***14.1 UN-Number***	
- ***ADR, IMDG, IATA***	*Void*
- ***14.2 UN proper shipping name***	
- ***ADR, IMDG, IATA***	*Void*
- ***14.3 Transport hazard class(es)***	
- ***ADR, IMDG, IATA***	
- ***Class***	*Void*
- ***14.4 Packing group***	
- ***ADR, IMDG, IATA***	*Void*
- ***14.5 Environmental hazards:***	
- ***Marine pollutant:***	*No*
- ***14.6 Special precautions for user***	*Not applicable.*
- ***14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code***	*Not applicable.*
- ***Transport/Additional information:***	*Not dangerous according to the above specifications.*
- ***UN "Model Regulation":***	-

SECTION 15: Regulatory information

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

- ***National regulations***

- ***Information about limitation of use:*** *Employment restrictions concerning young persons must be observed.*
- ***Technical instructions (air):***

Class	***Share in %***
NK	*25-50*

- ***Water hazard class:***
Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.
- ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- ***Relevant phrases***

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

- ***Department issuing data specification sheet:*** *see item 1: Informing department*
- ***Abbreviations and acronyms:***

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
LEV: Local Exhaust Ventilation
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Ox. Liq. 1: Oxidising Liquids, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3