

nology Pri	nting date 13.11.2017	according to 1907/2006/EC, Article 31 Version number 4	Revision: 13.11.2017
	SECTION 1: Identifica	ution of the substance/mixture and of the cor	npany/undertaking
	· 1.1 Product identifier · Trade name: BENAM		
	• 1.2 Relevant identified uses No further relevant informat • Application of the substance		•
	• 1.3 Details of the supplier of • Manufacturer/Supplier: BWT AG	f the safety data sheet	
	Walter Simmer Straße 4 A - 5310 Mondsee AUSTRIA Tel.: +43/6232/5011-0 Fax: +43/6232/4058 email: office@bwt.at		
	• Further information obtain Abteilung F&E - Chemikalie Tel.: +43/6232/5011-1427 email: msds-info@bwt-group	enbeauftragter	
	1.4 Emergency telephone m Vergiftungsinformation Wier Tel.: +43/1-406 43 43		
	SECTION 2: Hazards	identification	
	• 2.1 Classification of the sub • Classification according to	estance or mixture Regulation (EC) No 1272/2008	
	GHS05 corrosion		
	Eye Dam. 1 H318 Causes	serious eye damage.	
	GHS07		
	Acute Tox. 4H302HarmfuSkin Irrit. 2H315CausesSTOT SE 3H335May cau	-	
	• 2.2 Label elements • Labelling according to Regu The product is classified and • Hazard pictograms	ulation (EC) No 1272/2008 I labelled according to the CLP regulation.	
	GHS05 GHS07 • Signal word Danger		
	~		

 \cdot Hazard-determining components of labelling:

hydrogen peroxide solution • Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage.

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H335 May caus	e respiratory irritation.
Precautionary s	statements
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P.	338 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/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
2.3 Other hazar	rds
Results of PBT	and vPvB assessment
PBT: Not appli	

• **vPvB**: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Description

- 7722-84-1 hydrogen peroxide solution
- · Identification number(s) EINECS-Number: 231-765-0
- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Dangerous components.	
CAS: 7722-84-1 hydrogen peroxide solution	25-50%
EINECS: 231-765-0 🐼 Ox. Liq. 1, H271	
Skin Corr. 1A, H314	
(1) Acute Tox. 4, H302; Acute Tox. 4, H332	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of 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.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:
- If skin irritation continues, consult a doctor.
- Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Call a doctor immediately.
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Water
- \cdot For safety reasons unsuitable extinguishing agents:

Foam

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Extinguishing powder

Carbon dioxide

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- In case of seepage into the ground inform responsible authorities.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store only in the original receptacle. Store in a cool location.
- Information about storage in one common storage facility: Store away from flammable substances. Do not store together with alkalis (caustic solutions).
- Further information about storage conditions: Protect from heat and direct sunlight. Keep container tightly sealed.
- Storage class: 5.1B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

7722-84-1 hydrogen peroxide solution

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

Long-term value: 1.4 mg/m³, 1 ppm

• Additional information: The lists valid during the making were used as basis.

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· Odour threshold:

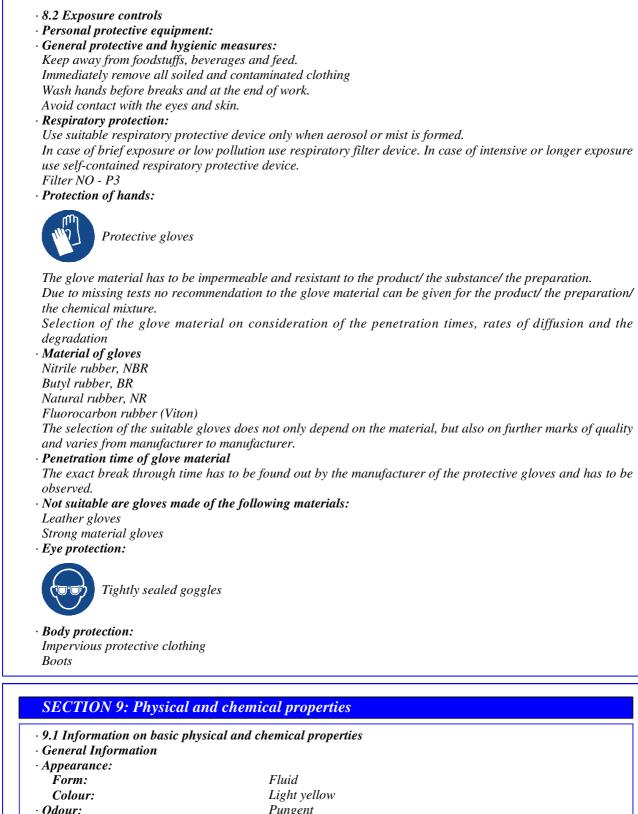
· pH-value at 20 °C:

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Not determined.

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Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. :: 114 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1,196 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0,0 %
Water:	65,0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions
- Reacts with alcohols.
- Reacts with amines.
- Reacts with various metals.
- Reacts with alkaline metals.
- Reacts with powdered metals.
- Reacts with flammable substances.
- Reacts with acids.
- Reacts with oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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^{· 10.2} Chemical stability



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SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- \cdot Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability Easily biodegradable
- 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 (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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 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
- · Recommendation

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

 \cdot European waste catalogue

16 09 03* peroxides, for example hydrogen peroxide

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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14.1 UN-Number	
ADR, IMDG, IATA	UN2014
14.2 UN proper shipping name	2014 INVERGENTE ADJECTIC COLUMN
ADR IMDG, IATA	2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION HYDROGEN PEROXIDE, AQUEOUS SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class Label	5.1 Oxidising substances. 5.1+8
IMDG	
Class Label	5.1 Oxidising substances. 5.1/8
Class Label	5.1 Oxidising substances. 5.1 (8)
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Danger code (Kemler):	<i>Warning: Oxidising substances.</i> 58
EMS Number:	F- S , S - Q
Segregation groups Stowage Category	Peroxides D
Stowage Code	SW1 Protected from sources of heat.
Segregation Code	SG16 Stow "separated from" class 4.1 SG59 Stow "separated from" permanganates SG72 See 7.2.6.3.2.
14.7 Transport in bulk according to An Marpol and the IBC Code	nex II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ) Excepted quantities (EQ)	IL Coder E2
www.antod augustition (E(1))	Code: E2 Maximum net quantity per inner packaging: 30 ml



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· Tunnel restriction code	Ε
· IMDG · Limited quantities (LQ)	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 phrases

H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled. · 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 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 Harmonised System of Classification and Labelling of Chemicals 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 1: Oxidizing liquids - Category 1 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.