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according to 1907/2006/EC, Article 31

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

· **1.1 Product identifier**

· **Trade name: KEIM I.W.PRIMER-COMP.B**
(ISOLIERWEISS-KOMP.B)

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the mixture**
Liquid component (bleaching agent) for mixing of KEIM Isolierweiß (insulating agent)

· **Uses advised against** All other uses are not recommended.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
KEIM MINERAL PAINTS LTD
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA
Tel +44 1952 231 250 / Fax +44 1952 231 251
www.keim.com / sales@keimpaints.co.uk

· **Further information obtainable from:**
David Pratt
Telefon: +44 1952 231250
E-Mail: sales@keimpaints.co.uk

· **1.4 Emergency telephone number:**
GBK GmbH Global Regulatory Compliance
Emergency number: +49(0)6132/84463

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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 Dam. 1 H318 Causes serious eye damage.

· **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**

GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrogen peroxide

· **Hazard statements**
H332 Harmful if inhaled.
H318 Causes serious eye damage.

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· **Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315	Get immediate medical advice/attention.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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 substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg.nr.: 01-2119485845-22	Hydrogen peroxide Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412	10-25%

· **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:**
Immediately remove any clothing soiled by the product.
When seeing the doctor we suggest to present this safety data sheet.
· **After inhalation:**
Supply fresh air.
Seek medical treatment in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Wash off immediately with water and soap and rinse well afterwards.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Rinse mouth and throat well with water.
Do not induce vomiting; call for medical help immediately.

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· **4.2 Most important symptoms and effects, both acute and delayed**
Burning effect and pain to eyes, skin and mucous membranes.
Coughing
· **Hazards**
Risk of serious damage to eyes.
Danger of pulmonary oedema.
If ingested aspiration risk due to foaming. Larger quantities can cause gas embolism. Lay down flat immediately in case of gas embolism. Risk of burns. Symptomatic treatment.
· **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 spray
· **For safety reasons unsuitable extinguishing agents:** Extinguishing powder
· **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Oxygen
· **5.3 Advice for firefighters**
· **Protective equipment:** Wear self-contained respiratory protective device.
· **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breathe smoke, fumes and vapours.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Do not inhale fumes.
Ensure adequate ventilation
Respect the protection rules (see section 7 a. 8).
Keep casual persons away.
· **6.2 Environmental precautions:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
Dilute with plenty of water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with non-combustible liquid-binding material (sand, diatomite, vermiculite).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.
Flush rests with sufficient amount of water.

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· **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**
Keep receptacles tightly sealed.
Avoid contact with skin and eyes.
Do not inhale aerosols.
Ensure good ventilation/exhaustion at the workplace.
See item 8 for information about suitable protective equipment and technical precautions. Respect the protection rules.
· **Information about fire - and explosion protection:**
Protect from heat.
Keep ignition sources away - Do not smoke.

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

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
7722-84-1 Hydrogen peroxide	
WEL	Short-term value: 2.8 mg/m³, 2 ppm Long-term value: 1.4 mg/m³, 1 ppm

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· **DNELs**

7722-84-1 Hydrogen peroxide		
Inhalative	Acute - local effects, worker	3 (worker)
	Acute - local effects, consumer	1.93 mg/m³ (consumer)
	Long-term - systemic effects, worker	1.4 mg/m³ (worker)
	Long-term - local effects, consumer	0.21 (consumer)

· **PNECs**

7722-84-1 Hydrogen peroxide	
Aquatic compartment - freshwater	0.0126 mg/l (freshwater)
Aquatic compartment - marine water	0.0126 mg/l (marine water)
Aquatic compartment - water, intermittent releases	0.0138 mg/l (not specified)
Aquatic compartment - sediment in freshwater	0.47 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.47 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.0023 mg/kg dw (soil)
Sewage treatment plant	4.66 mg/l (sewage treatment plant)

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

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Combination filter NO-P3
· **Protection of hands:**
Protective gloves
Only use chemical-protective gloves with CE-labelling of category III.
· **Material of gloves**
suitable material e.g.:
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 mm
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.7 mm
Natural rubber, NR
Recommended thickness of the material: ≥ 0.1 mm
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.

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· **Penetration time of glove material**
Value for the permeation: Level ≥ 6 (480 min)
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Not suitable are gloves made of the following materials:** Leather gloves
· **Eye protection:** Tightly sealed goggles
· **Body protection:**
Protective work clothing
Wear proper protective clothing especially in case handling huge amounts or danger of squirting.
· **Limitation and supervision of exposure into the environment** See Section 12 and 6.2

*
SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Colour:	Yellowish
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value at 20°C:**	< 3.5*
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Not applicable.
· **Ignition temperature:**	Not determined.
· **Decomposition temperature:**	~113°C
· **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:**	< 1 hPa (Partialdampfdruck (H2O2))
· **Density:**	Not determined.
· **Relative density**	Not determined.

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· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Fully miscible.
· **Partition coefficient: n-octanol/water:**	Not applicable
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **9.2 Other information**	* The values are for freshly produced material and may change with the time.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** Product is an oxidizing agent and reactive. Stable at room temperature.
· **10.2 Chemical stability** Stable under normal conditions of storage and use.
· **Thermal decomposition / conditions to be avoided:**
Risk of decomposition when exposed to heat.
To avoid thermal decomposition do not overheat.
· **10.3 Possibility of hazardous reactions**
Risk of self-accelerating exothermic decomposition with generation of oxygen when in contact with impurities, decomposition catalysts, incompatible materials (see below). Mixtures with combustible material may have explosive properties.
Fire hazard.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:**
Metals
Bases
reducing agents
flammable substances
Ferrous- and heavy metal salts
· **10.6 Hazardous decomposition products:** Oxygen
· **Additional information:**
Commercial products are stabilized to reduce decomposition dangers of contamination

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**
Harmful if inhaled.

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· **LD/LC50 values relevant for classification:**

7722-84-1 Hydrogen peroxide		
Oral	LD50	1,190-1,270 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit) (H2O2 70%)
Inhalative	LC50/4 h	>0.17 mg/l (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.
· **Serious eye damage/irritation**
Causes serious eye damage.
· **during inhalation:** Irritant effect possible.
· **during swallowing:** harmful
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Other information (about experimental toxicology):**
Experimental analysis are not available.
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
· **Repeated dose toxicity**
Effects: changes in blood parameters, irritation to gastrointestinal tract, body weight development negative.

7722-84-1 Hydrogen peroxide		
Oral	NOEL	26-37 mg/kg (mouse)

· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** not applicable
· **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** Based on available data, the classification criteria are not met.
· **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:**

7722-84-1 Hydrogen peroxide	
NOEC	0.1 mg/l (freshwater alga)
	0.63 mg/l (daphnia)
EC 50/48h	2.4 mg/l (daphnia)
EC 50/24h	7.7 mg/l (daphnia)
LC 50/96 h	16.4 mg/l (freshwater fish)
LC 50/24h	31 mg/l (freshwater fish)
IC 50/72h	2.5 mg/l (algae)

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EC 10/16h	11 mg/l (bacteria)

· **12.2 Persistence and degradability**
Rapid decomposition into oxygen and water. Medium: water, ground.
· **Behaviour in environmental systems:**
· **Components:**
Water, ground.
Under environmental conditions fast decomposition into oxygen and water, without negative impact on the environment.
· **12.3 Bioaccumulative potential** Bioaccumulation is not expected due to decomposition, reduction.
· **12.4 Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **AOX-indication:**
Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.
· **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**
According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.
· **General notes:**
At present there are no ecotoxicological assessments.
Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (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**
· **Recommendation**
Must not be disposed with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.

· **European waste catalogue**	
16 09 03*	peroxides, for example hydrogen peroxide

· **Uncleaned packaging:**
· **Recommendation:**
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.
· **Recommended cleansing agents:** Water, if necessary with cleansing agents.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN2984
· **14.2 UN proper shipping name**	
· **ADR**	2984 HYDROGEN PEROXIDE, AQUEOUS SOLUTION
· **IMDG, IATA**	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG, IATA**	
	
· **Class**	5.1 Oxidising substances.
· **Label**	5.1
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Oxidising substances.
· **Danger code (Kemler):**	50
· **EMS Number:**	F-H,S-Q
· **Stowage Category**	B
· **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 Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	E

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· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 2984 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1, III

*
SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Labelling according to Regulation (EC) No 1272/2008**
For information on labelling please refer to section 2 of this document.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
· **Other regulations, limitations and prohibitive regulations**
This product is licensed as a raw material for explosives restrictions on disclosure to private end-users according to Regulation EC 98/2013.
· **Please note:**
TRGS 200 (Germany)
TRGS 500 (Germany)
TRGS 510 (Germany)
TRGS 900 (Germany)
· **Substances of very high concern (SVHC) according to REACH, Article 57** not applicable
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.

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H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** KEIMFARBEN Germany, Product safety department
· **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)
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)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
EC10: Effective concentration at 10% mortality rate.
EC50: Half maximal effective concentration.
LC10: Lethal concentration at 10% mortality rate.
NOEC: No observed effect concentration.
REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
Ox. Liq. 1: Oxidizing liquids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**