

Safety Data Sheet

According to 91/155 EEC and 93/112 EC

Printing date 24.05.2007

Revision: 24.05.2007

1 Identification of substance

- **Product details**
- **Trade name** RENITHERM PRIMER AK 2 CA, RAL 7001
- **Article number:** 420333
- **Application of the substance / the preparation** Primer
- **Manufacturer/Supplier:**
Audax-Keck GmbH
Weiherstraße 10
D-75365 Calw
- **Informing department:**
Responsible Department: GL / R&D
Tel.: 004970511625 0
Fax: 004970511625 50
- **Emergency information:**
During normal opening times:
Responsible Department: GL / R&D
Tel.: 004970511625 0
Fax: 004970511625 50

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** based on alkyd resins, pigmented

- **Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7 EC Number: 601-022-00-9	xylene, mixed isomers, pure ☒ Xn, ☒ Xi; R 10-20/21-38	20-30%
CAS: 7779-90-0 EINECS: 231-944-3 EC Number: 030-011-00-6	trizinc bis(orthophosphate) ☒ N; R 50/53	5.0-10%
CAS: 64742-95-6 EINECS: 265-199-0 EC Number: 650-001-02-5	Solvent naphtha (petroleum), light arom. ☒ Xn, ☒ Xi, ☒ N; R 10-37-51/53-65-66-67	5.0-10%
CAS: 1314-13-2 EINECS: 215-222-5 EC Number: 030-013-00-7	zinc oxide ☒ N; R 50/53	0.5-1.0%
CAS: 64742-88-7 EINECS: 265-191-7 EC Number: 650-001-02-5	Solvent naphtha (petroleum), medium aliph. 140/200 ☒ Xn, ☒ N; R 10-51/53-65-66-67	0.1-0.5%
CAS: 64742-82-1 EINECS: 265-185-4 EC Number: 649-330-00-2	White spirit 140/200 ☒ Xn, ☒ N; R 10-51/53-65-66-67	0.1-0.5%
CAS: 98-54-4 EINECS: 202-679-0	4-tert-butylphenol ☒ Xi, ☒ N; R 36/37/38-51/53	0.1-0.5%

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

3 Hazards identification

- **Hazard designation:**
Xn Harmful
N Dangerous for the environment
- **Information pertaining to particular dangers for man and environment**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 10 Flammable.
R 20/21 Harmful by inhalation and in contact with skin.

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R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contains 2-butanone oxime. May produce an allergic reaction.

· **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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. 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.

· **After eye contact** Rinse opened eye for several minutes under running water.

· **After swallowing** Do not induce vomiting; instantly call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents** CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents**

Water.

Water with a full water jet.

· **Protective equipment:** Put on breathing apparatus.

6 Accidental release measures

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

Inform respective authorities in case product reaches water or sewage system.

· **Measures for cleaning/collecting:**

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

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

7 Handling and storage

· **Handling**

· **Information for safe handling:**

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Storage**

· **Requirements to be met by storerooms and containers:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls and personal protection

- **Components with critical values that require monitoring at the workplace:**

1330-20-7 xylene, mixed isomers, pure

WEL ()	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

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.

- **Breathing equipment:**



Only during spraying without adequate removal by suction.

- **Protection of hands:**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

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:**



Safety glasses recommended during refilling.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	According to product specification
Smell:	Characteristic

- **Change in condition**

Melting point/Melting range: Not determined

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Boiling point/Boiling range: 137°C	
· Flash point:	30°C
· Ignition temperature:	500.0°C
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive steam/air mixtures is possible.
· Critical values for explosion:	
Lower:	1.1 Vol %
Upper:	7.0 Vol %
· Vapor pressure at 20°C:	5.0 hPa
· Density at 20°C	1.42 g/cm ³
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Viscosity:	
dynamic at 20°C:	440 mPas
· Solvent content:	
Organic solvents:	29.5 %
Water:	0.0 %
VOC-value (EU):	419.1 g/l
VOC-content (EU):	29.51 %
Solids content: (calculated)	70.5 %

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

1330-20-7 xylene, mixed isomers, pure

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/4 h	6350 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

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

Harmful
Irritant

GB

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12 Ecological information:


- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **General notes:**
 Water hazard class 2 (Self-assessment): hazardous for water.
 Do not allow product to reach ground water, water bodies or sewage system.
 Danger to drinking water if even small quantities leak into soil.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Hand over to disposers of hazardous waste.
- **European waste catalogue**

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
 - **ADR/RID-GGVS/E Class:** -
 - **Remarks:** Receptacles of more than 450 liters capacity:
1263 Paint, 3, III
 - **Maritime transport IMDG/GGVSea:**
 - **IMDG/GGVSea Class:** -
 - **Marine pollutant:** Yes
 - **Remarks:** Receptacles of more than 30 liters capacity:
Paint UN 1263, Class 3, PG III, Ems-No. F-E,S-E
 - **Air transport ICAO-TI and IATA-DGR:**
- 
- **ICAO/IATA Class:** 3
 - **UN/ID Number:** 1263
 - **Label:** 3
 - **Packaging group:** III
 - **Correct technical name:** PAINT

15 Regulatory information

- **Designation according to EC guidelines:**
 The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

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

Xn Harmful
N Dangerous for the environment

· **Hazard-determining components of labelling:** xylene, mixed isomers, pure· **Risk phrases:**

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

- 9 Keep container in a well-ventilated place.
- 23 Do not breathe gas/fumes/vapour/spray.
- 25 Avoid contact with eyes.
- 33 Take precautionary measures against static discharges.
- 36/37 Wear suitable protective clothing and gloves.
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.
- 57 Use appropriate container to avoid environmental contamination.
- 60 This material and its container must be disposed of as hazardous waste.

· **Special designation of certain preparations:** Contains 2-butanone oxime. May produce an allergic reaction.· **National regulations**· **Technical instructions (air):**

Class	Share in %
I	0.8
III	0.2
NK	28.5

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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 R-phrases**

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 37 Irritating to respiratory system.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing data specification sheet:** Responsible Department: GL / R&D· **Contact:** Hr. Friedrich Köhnen