

1 Identification of the substance/preparation and of the company/undertaking

- Product details
- Trade name: **2K Washprimer CR 50 1:1**
- Article number: 5020
- Application of the substance / the preparation Etch primer, Wash primer
- Manufacturer/Supplier:
 Kristal Coatings B.V.
 Platinawerf 22B
 6641 TL Beuningen - Holland
 Tel: 0031 24 67 526 36
 Fax: 0031 24 67 533 60
- Further information obtainable from: info@kristalcoatings.nl
- Information in case of emergency: 0031 24 67 526 36

2 Hazards identification

- Hazard description:



T Toxic
 F Highly flammable
 N Dangerous for the environment

- Information concerning particular hazards for human 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 45 May cause cancer.
 R 11 Highly flammable.
 R 20 Also harmful by inhalation.
 R 36/37/38 Irritating to eyes, respiratory system and skin.
 R 43 May cause sensitisation by skin contact.
 R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Contains epoxy constituents. See information supplied by the manufacturer.
 Restricted to professional users.

- 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

H225 - Highly flammable liquid and vapour.



Danger

H350 - May cause cancer.



Danger

H318 - Causes serious eye damage.



Warning

H317 - May cause an allergic skin reaction.
 H335 - May cause respiratory irritation.



H411 - Toxic to aquatic life with long lasting effects.

Contains epoxy constituents. May produce an allergic reaction.

- Prevention:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.

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- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P281 Use personal protective equipment as required.

Response:

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P321 Specific treatment (see on this label).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P391 Collect spillage.

Storage:

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal:

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

3 Composition/information on ingredients

Chemical characterization

- Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:






CAS: 108-10-1	4-methylpentan-2-one	50-100%
EINECS: 203-550-1	☒ Xn, ☒ Xi, ☒ F; R 11-20-36/37-66	
	Danger: ☠ 2.6/2	
	Warning: ⚠ 3.1.1/4, 3.3/2, 3.8/3	
CAS: 67-63-0	propan-2-ol	2.5-10%
EINECS: 200-661-7	☒ Xi, ☒ F; R 11-36-67	
	Danger: ☠ 2.6/2	
	Warning: ⚠ 3.3/2, 3.8/3	
CAS: 49663-84-5	pentazinkchromaatoctahydroxide	2.5-10%
EINECS: 256-418-0	Carc. Cat. 1; ☒ T, ☒ Xi, ☒ N; R 45-22-43-50/53	
	Danger: ☠ 3.6/1A	
	Warning: ☠ 4.1.C/1; ⚠ 3.1.O/4, 3.4.S/1	
CAS: 107-98-2	1-methoxy-2-propanol	2.5-10%
EINECS: 203-539-1	R 10	
	Warning: ☠ 2.6/3	
CAS: 71-36-3	butan-1-ol	0.5-2.5%
EINECS: 200-751-6	☒ Xn, ☒ Xi; R 10-22-37/38-41-67	
	Danger: ☠ 3.3/1, 3.2/2	
	Warning: ☠ 2.6/3; ⚠ 3.1.O/4, 3.8/3	
CAS: 78-83-1	butanol	0.5-2.5%
EINECS: 201-148-0	☒ Xi; R 10-37/38-41-67	
	Danger: ☠ 3.3/1, 3.2/2	
	Warning: ☠ 2.6/3; ⚠ 3.8/3	
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	0.5-2.5%
NLP: 500-033-5	☒ Xi, ☒ N; R 36/38-43-51/53	
	Warning: ⚠ 3.2/2, 3.3/2, 3.4.S/1	
	☠ 4.1.C/2	

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CAS: 108-95-2 phenol 0.5-2.5%
 EINECS: 203-632-7 Muta. Cat. 3;  T;  C; R 23/24/25-34-48/20/21/22-68
 Danger:  3.1.O/3, 3.1.D/3, 3.1.I/3;  3.2/1B
 Warning:  3.5/2, 3.9/2

· 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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

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

· Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground 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.

Ensure adequate ventilation.

7 Handling and storage

· Handling:

· Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.

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

· Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

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

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

108-10-1 4-methylpentan-2-one

WEL Short-term value: 416 mg/m³, 100 ppm

Long-term value: 208 mg/m³, 50 ppm

Sk

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

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107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm
 Long-term value: 375 mg/m³, 100 ppm
 Sk

71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m³, 50 ppm
 Sk

78-83-1 butanol

WEL Short-term value: 231 mg/m³, 75 ppm
 Long-term value: 154 mg/m³, 50 ppm

108-95-2 phenol

WEL Long-term value: 2 ppm
 Sk

- 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.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
- 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.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product.
 Due to missing tests no recommendation to the glove material can be given for the product.
 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:



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Beige
Odour:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
 Boiling point/Boiling range: 82°C

- Flash point: 15°C
- Ignition temperature: 270°C
- Self-igniting: Product is not selfigniting.
- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:
 - Lower: 1.7 Vol %

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according to 1907/2006/EC, Article 31

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Upper:	9.0 Vol %
· Vapour pressure at 20°C:	8 hPa
· Density at 20°C:	0.99 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Viscosity:	
Kinematic at 20°C:	145 s (DIN 53211/4)
· Solvent content:	
VOC (EC)	640 g/l

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: No dangerous reactions known.
- Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
- LD/LC50 values relevant for classification:

108-10-1 4-methylpentan-2-one Oral

LD50	2080 mg/kg (rat)
Dermal LD50	16000 mg/kg (rab)
Inhalative LC50/4 h	8.3-16.6 mg/l (rat)

108-95-2 phenol

Oral LD50	317 mg/kg (rat)
Dermal LD50	850 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- 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
Carcinogenic.
- Sensitisation: May cause sensitisation by skin contact.

12 Ecological information

- Ecotoxicological effects:
- Remark: Toxic for fish
- General notes:
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

- Product:
- Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

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14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID class: 3 Flammable liquids.
- Danger code (Kemler): 33
- UN-Number: 1263
- Packaging group: III
- Hazard label: 3
- Special marking: Symbol (fish and tree)
- Description of goods: 1263 PAINT

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: Yes
Symbol (fish and tree)

- Proper shipping name: PAINT

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: III
- Proper shipping name: PAINT
- UN "Model Regulation": UN1263, PAINT, 3, III
- Environmental hazards: Product contains environmentally hazardous substances: pentazinkchromaatetrahydroxide

15 Regulatory information

- Labelling 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:



T Toxic
F Highly flammable
N Dangerous for the environment

- Hazard-determining components of labelling:

pentazinkchromaatetrahydroxide

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

4-methylpentan-2-one

- Risk phrases:

45 May cause cancer.

11 Highly flammable.

20 Also harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

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

Safety phrases:

- 53 Avoid exposure - obtain special instructions before use.
- 36/37 Wear suitable protective clothing and gloves.
- 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.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.
Restricted to professional users.

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

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 22 Harmful if swallowed.
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 34 Causes burns.
- 36 Irritating to eyes.
- 36/37 Irritating to eyes and respiratory system.
- 36/38 Irritating to eyes and skin.
- 37/38 Irritating to respiratory system and skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 45 May cause cancer.
- 48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
- 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.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- 68 Possible risk of irreversible effects.

Department issuing MSDS: 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)
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 Labelling of Chemicals
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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