

1 Identification of substance

- **Product details**
- **Trade name:** 2K-EP-Grundierfiller-Spray
- **Application of the substance / the preparation** Primer
- **Manufacturer/Supplier:**
MIPA AG
Am Oberen Moos 1
D-84051 Essenbach
Tel.: 0049(0) 8703-922-0
Fax.: 0049(0) 8703-922-100
e-mail: sdb-registratur@mipa-paints.com
www.mipa-paints.com
- **Information department:** Laboratory
- **Emergency information:** 011 49(0)700 24112112 (MIP)

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

115-10-6	dimethyl ether	25-50%
67-64-1	acetone	10-25%
1330-20-7	xylene	2.5-10%
25068-38-6	bisphenole	2.5-10%
71-36-3	butan-1-ol	2.5-10%
107-98-2	1-methoxy-2-propanol	≤ 2.5%
7779-90-0	trizinc bis(orthophosphate)	≤ 2.5%

3 Hazards identification

- **Hazard description:**



Irritant
Extremely flammable

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

Warning! Pressurized container.

Has a narcotizing effect.

Extremely flammable.

Irritating to eyes.

May cause sensitisation by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

Contains epoxy constituents. See information supplied by the manufacturer.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children.

(Contd. on page 2)

Printing date 03/15/2010

Reviewed on 03/15/2010

Trade name: 2K-EP-Grundierfiller-Spray

(Contd. of page 1)

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 4
Reactivity = 3

· **HMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = 1
FIRE 4 Fire = 4
REACTIVITY 3 Reactivity = 3

4 First aid measures

· **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, sand, extinguishing powder. Do not use water.

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

· **Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

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:**

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

* 7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

(Contd. on page 3)

Trade name: 2K-EP-Grundierfiller-Spray

(Contd. of page 2)

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **Storage class: 2B**

8 Exposure controls and personal protection

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

· **Components with limit values that require monitoring at the workplace:**

115-10-6 dimethyl ether

WEEL () 1000 ppm

67-64-1 acetone

PEL () 2400 mg/m³, 1000 ppm

REL () 590 mg/m³, 250 ppm

TLV () Short-term value: 1782 mg/m³, 750 ppm

Long-term value: 1188 mg/m³, 500 ppm

BEI

1330-20-7 xylene

PEL () 435 mg/m³, 100 ppm

REL () Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV () Short-term value: 651 mg/m³, 150 ppm

Long-term value: 434 mg/m³, 100 ppm

BEI

71-36-3 butan-1-ol

PEL () 300 mg/m³, 100 ppm

REL () Short-term value: C 150 mg/m³, C 50 ppm

Skin

TLV () 61 mg/m³, 20 ppm

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

REL () Short-term value: 540 mg/m³, 150 ppm

Long-term value: 360 mg/m³, 100 ppm

TLV () Short-term value: 553 mg/m³, 150 ppm

Long-term value: 369 mg/m³, 100 ppm

· **Additional information:** The lists that were valid during the creation 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.

Do not inhale gases / fumes / aerosols.

(Contd. on page 4)

Trade name: 2K-EP-Grundierfiller-Spray

(Contd. of page 3)

Avoid contact with the eyes.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Use suitable respiratory protective device in case of insufficient ventilation.

· **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**

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 goggles

9 Physical and chemical properties

· **General Information**

Form: Aerosol
Color: According to product specification
Odor: Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -24°C (-11°F)

· **Flash point:** < 0°C (< 32°F) (DIN 53213)

· **Ignition temperature:** 235°C (455°F) (DIN 51794)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 2.6 Vol %
Upper: 18.6 Vol %

· **Vapor pressure at 20°C (68°F):** 5200 hPa (3900 mm Hg)

(Contd. on page 5)

Printing date 03/15/2010

Reviewed on 03/15/2010

Trade name: 2K-EP-Grundierfiller-Spray

(Contd. of page 4)

- | | |
|--|------------------------------------|
| · Density at 20°C (68°F): | 0.95 g/cm ³ (DIN 53217) |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Solvent content: | |
| Organic solvents: | 64.5 % |
| VOC content: | 48.5 % |
| | 570.5 g/l / 4.76 lb/gal |
| · Solids content (weight-%): | 35.5 % |

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:**
Possible in traces.
Nitrogen oxides
Hydrogen chloride (HCl)
Carbon monoxide
Nitrogen oxides (NO_x)

* 11 Toxicological information

· **Acute toxicity:**

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

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
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7779-90-0 trizinc bis(orthophosphate)

Oral	LD50	>5000 mg/kg (rat)
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· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

* 12 Ecological information

· **Ecotoxicological effects:**

- **Remark:** Harmful to fish

· **General notes:**

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

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

USA

(Contd. on page 6)

Printing date 03/15/2010

Reviewed on 03/15/2010

Trade name: 2K-EP-Grundierfiller-Spray

(Contd. of page 5)

13 Disposal considerations

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

* 14 Transport information

· **DOT regulations:**



- **Hazard class:** 2.1
- **Identification number:** UN1950
- **Packing group:** -
- **Proper shipping name (technical name):** AEROSOLS, flammable
- **Label:** 2.1

· **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 2 5F Gases
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label:** 2.1
- **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** Yes
Symbol (fish and tree)
- **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1

(Contd. on page 7)

USA

Printing date 03/15/2010

Reviewed on 03/15/2010

Trade name: 2K-EP-Grundierfiller-Spray

(Contd. of page 6)

- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Propper shipping name:** AEROSOLS, flammable

15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene

71-36-3 butan-1-ol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

67-64-1 acetone

I

1330-20-7 xylene

I

71-36-3 butan-1-ol

D

· IARC (International Agency for Research on Cancer)

1330-20-7 xylene

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4 10-25%

1330-20-7 xylene

A4 2,5-10%

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

(Contd. on page 8)

Printing date 03/15/2010

Reviewed on 03/15/2010

Trade name: 2K-EP-Grundierfiller-Spray

(Contd. of page 7)

· **Hazard symbols:**

Irritant
Extremely flammable

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

bisphenole

· **Risk phrases:**

Extremely flammable.
Irritating to eyes.
May cause sensitisation by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

Keep out of the reach of children.
Do not breathe aerosol.
Avoid contact with skin and eyes.
Wear suitable gloves.
If swallowed, seek medical advice immediately and show this container or label.
Use only in well-ventilated areas.

· **Special labeling of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Buildup of explosive mixtures possible without sufficient ventilation.
Keep out of the reach of children.

· **National regulations:**

· **Information about limitation of use:**

None of the ingredients is listed.

Class	Share in %
NK	50-100

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.

- **Department issuing MSDS:** MIPA AG, Abteilung Umweltschutz
- **Contact:** Michaela Knall
- * **Data compared to the previous version altered.**