

## 1 Identification of substance

- **Product details**
- **Trade name:** 4+1 Acrylfiller HS
- **Application of the substance / the preparation** Knife filler/ Surfacer
- **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](mailto:sdb-registratur@mipa-paints.com)  
[www.mipa-paints.com](http://www.mipa-paints.com)
- **Information department:** Laboratory
- **Emergency information:**  
 011 49(0)5262-9939657 (MIP)  
 US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

## 2 Composition/Data on components

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

- **Dangerous components:**

123-86-4	n-butyl acetate	10-25%
7779-90-0	Preparation based on zincphosphate (supplier's classification)	2.5-10%
108-65-6	2-methoxy-1-methylethyl acetate	≤ 2.5%
64742-95-6	Solvent naphtha (petroleum), light arom.	≤ 2.5%
1330-20-7	xylene	≤ 2.5%
1314-13-2	zinc oxide	≤ 2.5%

## 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
 The product has to be labelled due to the calculation procedure of international guidelines.  
 At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
 Has a narcotizing effect.  
 Flammable.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Repeated exposure may cause skin dryness or cracking.  
 Vapours may cause drowsiness and dizziness.
- **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 = 0  
 Fire = 3  
 Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

**4 First aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

**5 Fire fighting measures**

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

**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).  
Do not flush with water or aqueous cleansing agents

**7 Handling and storage**

- **Handling:**
- **Information for safe handling:** Use only in well ventilated areas.
- **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 receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

**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:**

123-86-4 n-butyl acetate

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PEL	710 mg/m <sup>3</sup> , 150 ppm
REL	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 713 mg/m <sup>3</sup> , 150 ppm
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEEL	50 ppm
<b>1330-20-7 xylene</b>	
PEL	435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm
	BEI

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

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not required.

· **Protection of hands:**

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:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 124°C (255°F)

· **Flash point:** 29°C (84°F) (DIN 53213)

· **Ignition temperature:** 370°C (698°F) (DIN 51794)

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· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.5 Vol %
· <b>Vapor pressure at 20°C (68°F):</b>	10.7 hPa (8 mm Hg)
· <b>Density at 20°C (68°F):</b>	1.666 g/cm <sup>3</sup> (DIN 53217)
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Viscosity:</b>	
<b>Dynamic at 20°C (68°F):</b>	10000 mPas
· <b>Solvent separation test</b>	< 3 %
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	25.9 %
<b>VOC content:</b>	25.9 %
	430.7 g/l / 3.59 lb/gl
· <b>Solids content (weight-%):</b>	74.1 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous products of decomposition:** Carbon monoxide

## 11 Toxicological information

### · Acute toxicity:

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

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

### · Ecotoxicological effects:

#### · Aquatic toxicity:

7779-90-0 Preparation based on zincphosphate (supplier's classification)

EC50	63.1 mg/kg (daphnia)
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- **Remark:** Harmful to fish

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- **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

### 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:** 3
- **Identification number:** UN1263
- **Packing group:** III
- **Proper shipping name (technical name):** PAINT
- **Label:** 3

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



- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Label:** 3
- **Description of goods:** 1263 PAINT, special provision 640E
- **Remarks:** ≤ 450 l: -

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** PAINT

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· **Remarks:**  $\leq 30$  l: -· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 3  
 · **UN/ID Number:** 1263  
 · **Label:** 3  
 · **Packaging group:** III  
 · **Propper shipping name:** PAINT

## 15 Regulations

· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7 xylene

1344-28-1 aluminium oxide

100-41-4 Ethylbenzene

· **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)**

1330-20-7 xylene I

1314-13-2 zinc oxide II

100-41-4 Ethylbenzene D

· **IARC (International Agency for Research on Cancer)**

13463-67-7 titanium dioxide 2B

14807-96-6 Talk 3

1330-20-7 xylene 3

· **NTP (National Toxicology Program)**14808-60-7 Quartz (SiO<sub>2</sub>) K· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7 titanium dioxide

A4 10-25%

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14807-96-6	Talk	A4	2,5-10%
1330-20-7	xylene	A4	≤2,5%
1344-28-1	aluminium oxide	A4	≤2,5%
1314-23-4	zirconium dioxide	A4	≤2,5%
14808-60-7	Quartz (SiO <sub>2</sub> )	A2	≤2,5%
100-41-4	Ethylbenzene	A3	≤2,5%
77-58-7	dibutyltin dilaurate	A4	≤2,5%

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

13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO <sub>2</sub> )

· **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.

· **Risk phrases:**

Flammable.

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

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

Keep out of the reach of children.

Avoid contact with eyes.

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

If swallowed, seek medical advice immediately and show this container or label.

· **National regulations:**

· **Information about limitation of use:**

14807-96-6	Talk	3B
1344-28-1	aluminium oxide	2
14808-60-7	Quartz (SiO <sub>2</sub> )	1
100-41-4	Ethylbenzene	3A

Class	Share in %
NK	25-50

**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.**