

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2008

Revision: 16.01.2008

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

- **Product details**
- **Trade name:** 2K-Grundierfueller
- **Article number:** REZ54
- **Application of the substance / the preparation** Paintwork
- **Manufacturer/Supplier:**
Peter Kwasny GmbH
Heilbronner Str. 96
D-74831 Gundelsheim
- **Further information obtainable from:** Product safety department
- **Information in case of emergency:** Tel.: +49 6269 95 20

Tel.: 0049-(0)6269-95-20
E-mail: labor@kwasny.de

2 Hazards identification

- **Hazard description:**



Xi Irritant
F+ Extremely 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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
Warning! Pressurized container.

R 12 Extremely flammable.

R 18 In use, may form flammable/explosive vapour-air mixture.

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.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

Contains isocyanates. See information supplied by the manufacturer

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. 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.

Keep out of the reach of children

- **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

2.2/1 - Extremely flammable gas.

2.3/1 - Extremely flammable aerosol.



Warning

3.4/1 - May cause an allergic skin reaction.

3.8/3 - May cause drowsiness or dizziness.

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4.1/2 - Toxic to aquatic life with long lasting effects.

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Eliminate all ignition sources if safe to do so.

Collect spillage.

Storage:

Store in a well-ventilated place.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Disposal:

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: 115-10-6 EINECS: 204-065-8	dimethyl ether F+; R 12 Danger: 2.2/1	25-50%
CAS: 67-64-1 EINECS: 200-662-2	acetone Xi, F; R 11-36-66-67 Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	10-25%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67 Warning: 2.6/3; 3.8/3	5-10%
CAS: 28182-81-2	Aliphatisches Polyisocyanat Xi; R 43 Warning: 3.4.S/1	5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn, Xi; R 10-20/21-38 Danger: 3.1.D/3, 3.1.I/4, 3.2/2 Warning: 2.6/3	5-10%

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









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CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate  Xi; R 10-36 Warning:  2.6/3;  3.3/2A	≤2.5%
CAS: 7779-90-0 EINECS: 231-944-3	trizinc bis(orthophosphate)  N; R 50/53 Warning:  4.1.C/1	≤2.5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  Xn,  N; R 51/53-65 Danger:  3.10/1 Warning:  2.6/3  4.1.C/2	≤2.5%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene  Xn,  Xi,  N; R 10-20-36/37/38-51/53 Warning:  2.6/3;  3.1.1/4, 3.2/2, 3.3/2A, 3.8/3  4.1.C/2	≤2.5%
CAS: 108-67-8 EINECS: 203-604-4	mesitylene  Xi,  N; R 10-37-51/53 Warning:  2.6/3;  3.8/3  4.1.C/2	≤2.5%

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

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.

· **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.

Cool container with water

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

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Can form explosive gas-air mixtures.

· **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:**

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

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

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - Keep away from heat and direct sunlight.
 - Ensure good ventilation/exhaustion at the workplace.
 - Take note of emission threshold.
 - Use only in well ventilated areas.
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **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:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.

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:**

115-10-6 dimethyl ether

WEL () Short-term value: 958 mg/m³, 500 ppm
Long-term value: 766 mg/m³, 400 ppm

67-64-1 acetone

WEL () Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm

123-86-4 n-butyl acetate

WEL () Short-term value: 966 mg/m³, 200 ppm
Long-term value: 724 mg/m³, 150 ppm

1330-20-7 xylene

WEL () Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

108-65-6 2-methoxy-1-methylethyl acetate

WEL () Short-term value: 548 mg/m³, 100 ppm
Long-term value: 274 mg/m³, 50 ppm
Sk

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

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with combination filter, class A1P2 minimum, or breathing mask with outer air supply.

- **Protection of hands:**



Protective gloves

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

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

· **Material of gloves** Nitrile rubber, NBR

· **Penetration time of glove material**

Gloves must be changed after every contamination.

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
Colour: According to product specification
Odour: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Without propellant gas.

· **Ignition temperature:** 235°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· Explosion limits:

Lower: 2.6 Vol %

Upper: 18.6 Vol %

· **Vapour pressure at 20°C:** 3400 hPa

· **Density:** Not determined.

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Solvent content:

Organic solvents: 64.4 %
 With propellant gas. Content given by weight.

· **Solids content:** 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 decomposition products:** Possible in traces.

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11 Toxicological information

- **Acute toxicity:**

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

7779-90-0 trizinc bis(orthophosphate)

Oral	LD50	>5000 mg/kg (rat)
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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:** Irritant to skin and mucous membranes.

- **on the eye:** No 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:

Irritant

- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **General notes:**

Water hazard class 2 (German Regulation) (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.

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.

Empty aerosols can be disposed with the ordinary waste.

- **European waste catalogue**

15 01 10	packaging containing residues of or contaminated by dangerous substances
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

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



- **ADR/RID class:** 2 5F Gases.

- **Danger code (Kemler):** 23

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- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ)** LQ2
- **Transport category** 2
- **Tunnel restriction code** B1D

· **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

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



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

- **UN "Model Regulation":** UN1950; AEROSOLS; 2.1; -

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:**



Xi Irritant
F+ Extremely flammable
N Dangerous for the environment

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

Aliphatisches Polyisocyanat

· **Risk phrases:**

- 12 Extremely flammable.
- 18 In use, may form flammable/explosive vapour-air mixture.
- 43 May cause sensitisation by skin contact.
- 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.

· **Safety phrases:**

- 2 Keep out of the reach of children.

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- 23 Do not breathe aerosol.
 24/25 Avoid contact with skin and eyes.
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 37 Wear suitable gloves.
 46 If swallowed, seek medical advice immediately and show this container or label.
 51 Use only in well-ventilated areas.

· **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. 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.
 Keep out of the reach of children

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	50-100

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

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.
 12 Extremely flammable.
 20 Harmful by inhalation.
 20/21 Harmful by inhalation and in contact with skin.
 36 Irritating to eyes.
 36/37/38 Irritating to eyes, respiratory system and skin.
 37 Irritating to respiratory system.
 38 Irritating to skin.
 43 May cause sensitisation by skin contact.
 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 MSDS:** Product safety department

- **Contact:** Hr. Hamberger

· **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 internationale 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
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

- *** Data compared to the previous version altered.**