

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.11.2015

Version number 3

Revision: 09.11.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name:** Korrekturstift -K/-G (f.Pos.Platten)

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available

· **Application of the substance / the mixture**

Additive

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:** Hanns Eggen GmbH & Co. KG
Mühlenweg 2
D-41379 Brüggen

Tel: +49 (0)2157 13878-0

Fax: +49 (0)2157 13878-19

zentrale@eggen.de

· **Further information obtainable from:**

Abteilung Produktsicherheit
SHE Departement

· **1.4 Emergency telephone number:**

Emergency Information +49 (0) 2157 138780



SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS06 skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS06

· **Signal word**

Danger

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

gamma-butyrolactone
hydrogen fluoride

· **Hazard statements**

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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- **Precautionary statements**
 - P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
 - P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
 - P321 *Specific treatment (see on this label).*
 - P301+P312 *IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.*
 - P405 *Store locked up.*
 - P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· **Description:** *Mixture: consisting of the following components.*

· **Dangerous components:**

CAS: 96-48-0 EINECS: 202-509-5	<i>gamma-butyrolactone</i> ----- ⚠ <i>Acute Tox. 4, H302; Eye Irrit. 2, H319</i>	<i>70-100%</i>
CAS: 7664-39-3 EINECS: 231-634-8	<i>hydrogen fluoride</i> ----- ⚠ <i>Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1A, H314</i>	<i>1-≤2.5%</i>
CAS: 7664-38-2 EINECS: 231-633-2	<i>phosphoric acid</i> ----- ⚠ <i>Skin Corr. 1B, H314</i>	<i>1-≤2.5%</i>

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information:** *Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.*
- **After inhalation:** *Supply fresh air or oxygen; call for 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:** *Do not induce vomiting; call for medical help immediately.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

7664-39-3 hydrogen fluoride (1-2.5%)	
WEL	Short-term value: 2.5 mg/m ³ , 3 ppm Long-term value: 1.5 mg/m ³ , 1.8 ppm
7664-38-2 phosphoric acid (1-2.5%)	
WEL	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³

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- **Additional information:** *The lists valid during the making were used as basis.*
- **8.2 Exposure controls**
- **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:** *Not necessary if room is well-ventilated.*
- **Protection of hands:**
 -  **Protective gloves**
 - Impervious gloves*
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- **Material of gloves**
 - Butyl rubber, BR*
 - Fluorocarbon rubber (Viton)*
 - Recommended thickness of the material: ≥ 0.7 mm*
 - 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.*
- **Penetration time of glove material** *The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **For the permanent contact gloves made of the following materials are suitable:**
 - Butyl rubber, BR*
 - Fluorocarbon rubber (Viton)*
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
 - Natural rubber, NR*
 - Chloroprene rubber, CR*
 - PVC gloves*
- **Eye protection:**
 -  **Tightly sealed goggles**

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** *Liquid*
 - Colour:** *Colourless*
 - Odour:** *Characteristic*
 - Odour threshold:** *Not determined.*
- **pH-value:** *Not determined.*
- **Change in condition**
 - Melting point/Melting range:** *Undetermined.*
 - Boiling point/Boiling range:** *100 °C*
- **Flash point:** *95 °C*
- **Flammability (solid, gaseous):** *Not applicable.*

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· Ignition temperature:	445 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	2.7 Vol %
Upper:	15.6 Vol %
· Vapour pressure at 20 °C:	> 1 hPa
· Density at 20 °C:	1.058 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC (EC)	81.00 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

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

96-48-0 gamma-butyrolactone

Oral	LD50	1540 mg/kg (rat)
Dermal	LD50	5000 mg/kg (gui)

7664-39-3 hydrogen fluoride

Oral	LD50	1276 mg/kg (rat)
Dermal	LD50	5 mg/kg (ATE)
Inhalative	LC50/4 h	0.5 mg/l (ATE)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

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- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **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:

Toxic
Irritant

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN2810
- **14.2 UN proper shipping name**
- **ADR** 2810 TOXIC LIQUID, ORGANIC, N.O.S. (HYDROGEN FLUORIDE)
- **IMDG, IATA** TOXIC LIQUID, ORGANIC, N.O.S. (HYDROGEN FLUORIDE)
- **14.3 Transport hazard class(es)**
- **ADR**
- **Class** 6.1 (T1) Toxic substances.



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· Label	6.1
· IMDG, IATA	
	
· Class	6.1 Toxic substances.
· Label	6.1
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Toxic substances.
· Danger code (Kemler):	60
· EMS Number:	F-A,S-A
· Segregation groups	Acids
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (HYDROGEN FLUORIDE), 6.1, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
 - **Hazard pictograms**
 - The product is classified and labelled according to the CLP regulation.
 - 
 - GHS06
 - **Signal word**
 - Danger
 - **Hazard-determining components of labelling:**
 - gamma-butyrolactone
 - hydrogen fluoride
 - **Hazard statements**
 - H302 Harmful if swallowed.
 - H311 Toxic in contact with skin.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.

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- | | | |
|--|---|---|
| · Precautionary statements | P280
P305+P351+P338

P321
P301+P312

P405
P501 | Wear protective gloves/protective clothing/eye protection/face protection.
<i>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</i>
<i>Specific treatment (see on this label).</i>
<i>IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.</i>
Store locked up.
<i>Dispose of contents/container in accordance with local/regional/national/international regulations.</i> |
| · Directive 2012/18/EU | | |
| · Named dangerous substances - ANNEX I | | |
| · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. | | |

SECTION 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 phrases | H300 Fatal if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled. |
| · Department issuing MSDS: | Abteilung Umweltschutz |
| · Contact: | Labor |
| · 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)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 2: Acute toxicity, Hazard Category 2
Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 1: Acute toxicity, Hazard Category 1
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 |

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