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

### 1.1 Product identifier

### 2K MS-3000/60v3, Comp. A

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

### 1.2.1 Relevant uses

Adhesive

### 1.2.2 Uses advised against

None known.

# .3 Details of the supplier of the safety data sheet

Company PANTERA Product GmbH

Simon-Bolivar-Straße 29 28197 Bremen / GERMANY Phone +49 (0)421 520 80 780 Fax +49 (0)421 520 80 789 Homepage www.panteraproduct.de E-mail info@panteraproduct.de

Address enquiries to

Technical informationinfo@panteraproduct.deSafety Data Sheetsdb@chemiebuero.de

1.4 Emergency telephone number

**Advisory body** GIZ-Nord; +49 (0)551 19 240

Company

### SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

**Special labelling** EUH210 Safety data sheet available on request.

Contains: N-[3-(Trimethoxysilyl)propyl]ethylenediamine. EUH208 May produce an allergic

reaction.

2.3 Other hazards

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.



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# **SECTION 3: Composition / Information on ingredients**

### Product-type:

### 3.2 The product is a mixture.

Range [%]	Substance
1 - <2,5	Trimethoxyvinylsilane
	CAS: 2768-02-7, EINECS/ELINCS: 220-449-8, Reg-No.: 01-2119513215-52-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332
0,1 - <1	N-[3-(TrimethoxysilyI)propyI]ethylenediamine
	CAS: 1760-24-3, EINECS/ELINCS: 217-164-6, Reg-No.: 01-2119970215-39-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H332 - Skin Sens. 1B: H317 - Aquatic Chronic 2: H411

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

### **SECTION 4: First aid measures**

### Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

#### Most important symptoms and effects, both acute and delayed 4.2

Allergic reactions

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5: Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing media Foam.

Carbon dioxide. Water spray jet. Dry powder. Full water jet.

Extinguishing media that must not

be used

# 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO) Nitrogen oxides (NOx).

# Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.



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# SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

# 6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder,

diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2



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# SECTION 8: Exposure controls / personal protection

# 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

### **DNEL**

Trimethoxyvinylsilane, CAS: 2768-02-7  Industrial, inhalative, Acute - systemic effects: 260 mg/m³.  Industrial, dermal, Long-term - systemic effects: 3.9 mg/kg bw/day.  Industrial, inhalative, Long-term - systemic effects: 27.6 mg/m³.  general population, oral, Long-term - systemic effects: 300 µg/kg bw/day.  general population, inhalative, Acute - systemic effects: 50 mg/m³.  general population, inhalative, Long-term - systemic effects: 6.7 mg/m³.  general population, dermal, Long-term - systemic effects: 7.8 mg/kg bw/day.  N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3  Industrial, inhalative, Acute - systemic effects: 260 mg/m³.  Industrial, inhalative, Long-term - local effects: 5.36 mg/m³.  Industrial, inhalative, Long-term - local effects: 600 µg/m³.  Industrial, inhalative, Long-term - systemic effects: 260 mg/m³.  Industrial, inhalative, Long-term - systemic effects: 260 mg/m³.
Industrial, dermal, Long-term - systemic effects: 3.9 mg/kg bw/day.  Industrial, inhalative, Long-term - systemic effects: 27.6 mg/m³.  general population, oral, Long-term - systemic effects: 300 µg/kg bw/day.  general population, inhalative, Acute - systemic effects: 50 mg/m³.  general population, inhalative, Long-term - systemic effects: 6.7 mg/m³.  general population, dermal, Long-term - systemic effects: 7.8 mg/kg bw/day.  N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3  Industrial, inhalative, Acute - systemic effects: 260 mg/m³.  Industrial, inhalative, Acute - local effects: 5.36 mg/m³.  Industrial, inhalative, Long-term - local effects: 600 µg/m³.  Industrial, inhalative, Long-term - systemic effects: 260 mg/m³.  Industrial, inhalative, Long-term - systemic effects: 8 mg/kg bw/day.
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general population, dermal, Long-term - systemic effects: 7.8 mg/kg bw/day.  N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3  Industrial, inhalative, Acute - systemic effects: 260 mg/m³.  Industrial, inhalative, Acute - local effects: 5.36 mg/m³.  Industrial, inhalative, Long-term - local effects: 600 µg/m³.  Industrial, inhalative, Long-term - systemic effects: 260 mg/m³.  general population, oral, Long-term - systemic effects: 8 mg/kg bw/day.
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Industrial, inhalative, Long-term - systemic effects: 260 mg/m³.  general population, oral, Long-term - systemic effects: 8 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 8 mg/kg bw/day.
general population, inhalative, Acute - systemic effects: 50 mg/m³.
general population, inhalative, Long-term - systemic effects: 50 mg/m³.
general population, inhalative, Long-term - local effects: 100 μg/m³.
general population, inhalative, Acute - local effects: 4 mg/m³.

# **PNEC**

Substance	
Trimethoxyvinylsilane, CAS: 2768-02-7	
sediment (seawater), 150 µg/kg.	
sediment (freshwater), 1.5 mg/kg.	
sewage treatment plants (STP), 6.6 mg/L.	
seawater, 40 µg/L.	
freshwater, 400 µg/L.	
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3	
sediment (seawater), 22 µg/kg.	
sediment (freshwater), 220 µg/kg.	
sewage treatment plants (STP), 25 mg/l.	
seawater, 0,0062 mg/l.	
freshwater, 0,062 mg/l.	



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#### 8.2 **Exposure controls**

Additional advice on system design Ensure adequate ventilation on workstation.

> Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Safety glasses. (EN 166:2001) Eye protection

Hand protection 0,4 mm Butyl rubber, >120 min (EN 374-1/-2/-3).

The details concerned are recommendations. Please contact the glove supplier for further

Skin protection light protective clothing

Other Avoid contact with eyes and skin.

Do not inhale vapours.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards no

Delimitation and monitoring of the

Protect the environment by applying appropriate control measures to prevent or limit environmental exposition

emissions.

# SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Form** pasty Color various Odor characteristic **Odour threshold** not determined pH-value not applicable pH-value [1%] not determined not applicable Boiling point [°C] Flash point [°C] not applicable Flammability (solid, gas) [°C] not determined Lower explosion limit not applicable not applicable Upper explosion limit

**Oxidising properties** 

Vapour pressure/gas pressure [kPa] not determined Density [g/ml] 1,4 (20 °C / 68,0 °F) Bulk density [kg/m³] not applicable Solubility in water virtually insoluble Partition coefficient [n-octanol/water] not determined Viscosity not applicable

Relative vapour density determined

in air

not determined

not determined **Evaporation speed** Melting point [°C] not determined Autoignition temperature [°C] not applicable Decomposition temperature [°C] not determined

#### 9.2 Other information

none

### SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.



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### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

# 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7

# 10.5 Incompatible materials

Oxidizing agent

# 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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# SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

### **Acute toxicity**

**General remarks** 

Product	
dermal, Based on the available information, the classification criteria are not fulfilled.:	
oral, Based on the available information, the classification criteria are not fulfilled.:	
ATE-mix, inhalation (vapour ), > 20 mg/l (4 h).	

ATE-IIIX, IIIIIaiation (vapour), > 20 mg/1 (4 m).		
Substance		
Trimethoxyvinylsilane, CAS: 2768-02-7		
LD50, dermal, Rabbit: 3259 mg/kg bw.		
LD50, inhalative, Rat: 16,8 mg/l (4 h) (OECD TG 403).		
LD50, oral, Rat: 7120 mg/kg (OECD TG 401).		
NOAEL, inhalative, Rat: 0,058 mg/l (98 d).		
NOAEL, oral, Rat: < 62,5 mg/kg (28 d) (OECD TG 422).		
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3		
LD50, oral, Rat: 2295 mg/kg bw (Lit.).		
LD50, dermal, Rat: >2000 mg/kg bw (Lit.).		
LC50, inhalative, Rat: 1,49 - 2,44 mg/L (4h) (Lit.).		

Serious eye damage/irritation Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. May cause an allergic skin reaction. Specific target organ toxicity -Based on available data, the classification criteria are not met. single exposure Specific target organ toxicity — Based on available data, the classification criteria are not met. repeated exposure Mutagenicity Does not contain a relevant substance that meets the classification criteria. Reproduction toxicity Does not contain a relevant substance that meets the classification criteria. Carcinogenicity Does not contain a relevant substance that meets the classification criteria. Based on available data, the classification criteria are not met. **Aspiration hazard** 

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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# SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Trimethoxyvinylsilane, CAS: 2768-02-7
LC50, (96h), Oncorhynchus mykiss: 191 mg/l.
EC50, Pseudokirchneriella subcapitata: 210 mg/l (7 d) (US-EPA).
EC50, (48h), Daphnia magna: 168,7 mg/l (92/69/EWG C.2).
EC10, Pseudomonas putida: 1000 mg/l (5 h).
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio: 597 mg/l (Lit.).
EC50, (16h), Pseudomonas putida: 67 mg/l (Lit.).
EC50, (48h), Daphnia magna: 81 mg/l (Lit.).
IC50, (72h), Algae: 8,8 mg/l (OECD 201).
NOEC, (21d), Daphnia magna: > 1 mg/l (Lit.).
NOEC, (72h), Algae: 3,1 mg/l (OECD 201).

# 12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant

not determined

Biological degradability

The product is not readily biodegradable.

# 12.3 Bioaccumulative potential

not determined

# 12.4 Mobility in soil

not applicable

# 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

# 12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

# SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

# **Product**

For recycling, consult manufacturer.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080410

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150101

150102



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# **SECTION 14: Transport information**

14.1 UN number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

Marine transport in accordance with

IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

IMDG

not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

not applicable

**IMDG** 

Air transport in accordance with IATA not applicable



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14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

no

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

no

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

**SECTION 16: Other information** 

16.1 Hazard statements (SECTION 03)

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H226 Flammable liquid and vapour.



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### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average

TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

### 16.3 Other information

Classification procedure

**Modified position** 

SECTION 2 been added: Further hazards were not determined with the current level of knowledge.

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: If ventilation is insufficient, wear respiratory protection.

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