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

· 1.1 Product identifier

· Trade name: SCHWARZPRIMER

· Article number: 82330

· 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· 1.2.1 Relevant identified uses

· Sector of Use

SU3 Industrial uses: uses of substances as such or in preparations at industrial sites SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Product category PC1 Adhesives, sealants

· Process category PROC4 Chemical production where opportunity for exposure arises

· Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article

· Application of the substance / the preparation : Primer for adhesive or sealant

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PETEC Verbindungstechnik GmbH

Wüstenbuch 26

96132 SCHLÜSSELFELD / DEUTSCHLAND

Telefon +49 (0) 9555 80994-0 Fax +49 (0) 9555-80994-25 Homepage www.petec.de

E-Mail: info@petec.de

· Information department: Laboratory

• 1.4 Emergency telephone number: +49 (0) 9555 80994-0

## SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation. Eye Irrit. 2

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · 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





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

methylethylketone

Polyisocyanate based on hexamethylene diisocyanate and tolylene diisocyanate n-butyl acetate

1,6-hexamethylene diisocyanate homopolymer

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· Hazard statements

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents and container in accordance with local regulations.

· Advised precautionary statements P102 Keep out of reach of children.

· Additional information :

Contains isocyanates. May produce an allergic reaction.

- · 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 of polyisocyanates in organic solution

Dangerous components:		
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methylethylketone  § Flam. Liq. 2, H225; ﴿ Eye Irrit. 2, H319; STOT SE 3, H336	40-60%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate  STOT SE 3, H336	20-25%
CAS: 26426-91-5	Polyisocyanate based on hexamethylene diisocyanate and tolylene diisocyanate  Skin Sens. 1, H317	5-10%
CAS: 28182-81-2 Reg.nr.: 01-2119485796-17	1,6-hexamethylene diisocyanate homopolymer  • Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	4-7%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32	carbon black substance with a Community workplace exposure limit	4-7%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate  © Flam. Liq. 3, H226	< 2.5%

· Additional information : For the wording of the listed hazard 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.

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· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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. Then 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

Headache

Dizziness

Gastric or intestinal disorders.

**Drowsiness** 

Breathing difficulty

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents CO2, extinguishing powder or water spray.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NOx)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Isocyanates

- · 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground 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.

Send for recovery or disposal in suitable receptacles.

Do not close them (reaction with water forming carbon dioxide).

· 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

Open and handle receptacle with care

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Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Prevent any seepage into the ground.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle 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 systems: No further data; see item 7.
- · 8.1 Control parameters

	· Components	with limit value	s that require	monitoring at	the workplace.
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### 78-93-3 methylethylketone

WEL Short-term value: 899 mg/m³, 300 ppm

Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

Sk. BMGV

### 123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

### 1333-86-4 carbon black

WEL Short-term value: 7 mg/m3

Long-term value: 3.5 mg/m<sup>3</sup>

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

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm

Long-term value: 274 mg/m³, 50 ppm

#### · Ingredients with biological limit values:

### 78-93-3 methylethylketone

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

- · Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke while working.

Avoid contact with the eyes and skin.

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# Safety data sheet according to 1907/2006/EC, Article 31

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· Breathing equipment:

of intensive or longer

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. Short term filter device:

Cites AD

Filter AB

#### · Protection of hands:

PVA gloves of superior quality.

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.

· Eye protection: Tightly sealed goggles.

· Body protection: Protective work clothing.

### **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic	physical	and chemical	properties
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· General Information

· Appearance:

Form:FluidColour:Black∙ Odour:Solvent-like

· Change in condition

Melting point/freezing point: undetermined

Initial boiling point and boiling range: 79 °C

· Flash point: -8 °C

· Self-ignition temperature: > 200 °C

• Self igniting: Product is not selfigniting at room temperature.

• Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures are possible

· Explosion limits:

**Lower:** 1.8 Vol % **Upper:** 11.5 Vol %

• **Density at 20 °C:** 0.92

· Solubility in / Miscibility with

Water: Partly miscible

· Viscosity:

dynamic at 20 °C: 50 mPa.s

Solvent content:

Solids content: 30 %

• 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

Reacts with strong oxidising agents.

- 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 Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values that are relevant for classification:		
78-93-3 m	78-93-3 methylethylketone		
Oral	LD50	3300 mg/kg (rat)	
Dermal	LD50	5000 mg/kg (rbt)	
123-86-4	123-86-4 n-butyl acetate		
Oral	LD50	14000 mg/kg (rat)	
Inhalative	LC50/4 h	>21.0 mg/l (rat)	

- · Primary irritant effect:
- · Skin corrosion/irritation Frequent or prolonged contact may irritate and cause dermatitis.
- · Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### 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.
- · Ecotoxical effects:
- · Other information: -
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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

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· 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 be disposed of in an incinerator for hazardous waste according to official regulations.

- · Waste disposal key: 08 04 09\*
- · Uncleaned packaging :
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informati		
14.1 UN-Number ADR, IMDG, IATA	UN1866	
14.2 UN proper shipping name ADR	1866 RESIN SOLUTION (vapour pressure at 50 °C not more than 110 kPa)	
IMDG, IATA	RESIN SOLUTION	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
3		
Class	3 Flammable liquids.	
Label	3	
14.4 Packing group ADR, IMDG, IATA	II .	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category	Warning: Flammable liquids. 33 F-E, <u>S-E</u> B	
14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
Transport/Additional information:		
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E2 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 500 r	
Transport category	2	

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	(Contd. of page 7)
· Tunnel restriction code · Limited quantities (LQ)	D/E 5L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1866 RESIN SOLUTION (VAPOUR PRESSURE AT 50 °C NOT MORE THAN 110 KPA), 3, II

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 20
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has 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. This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and their amendments; it is written according to annex II of the european regulation 830/2015/EC.

#### · Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

· Department issuing SDS: Laboratory

· Contact: cf. § 1

· Review:

An asterisk in the margin of a paragraph means amendments in comparison to the former version.

### · 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids - Category 3

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Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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### Annex: Exposure scenario

- · Name methylethylketone
- Short title of the exposure scenario

Industrial use for rigid foam, coatings and adhesives and sealants

Professional end use in rigid foam, coatings, adhesives and sealants and other composite material Consumer end use in rigid foam, coatings and adhesives and sealants

· Sector of Use

SU3 Industrial uses: uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU21 Consumer uses: Private households / general public / consumers

Product category

PC1 Adhesives, sealants

PC9a Coatings and paints, thinners, paint removers

· Process category

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC19 Manual activities involving hand contact

· Environmental release category

ERC2 Formulation into mixture

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC5 Use at industrial site leading to inclusion into/onto article

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

· Conditions of use According to directions for use.

· Duration and frequency

SU21, PC1 (adhesives, sealants):

Leisure adhesives PC1:

Concentrations up to 30 %

365 days/year

up to 4 hour(s) per day

Exposed skin surface : 35.73 cm<sup>2</sup> Amounts used/applied per event : 9 g

Room volume : > 20 m<sup>3</sup> Do-it-yourself adhesives PC1 :

Concentration of substance in product : up to 30 %

Up to 6 h per day, 1 days per year Exposed skin surface: 110 cm<sup>2</sup>

Amounts used/applied per event: 6390 g

Room volume :  $> 20 \text{ m}^3$ 

Provide good general ventilation (at least 0.6 air change(s) per hour)

Sealing products PC1:

Concentration of substance in product : up to 20 %

365 days/yearr

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Exposed skin surface : 35.73 cm<sup>2</sup> Amounts used/applied per event : 75 g

1 hour(s)/day

Room volume: > 34 m<sup>3</sup>

Provide good general ventilation (at least 0.6 air change(s) per hour)

SU21,PC9a (coatings and paintings, solvents, thinners): Concentration of substance in product: up to 50 %

3 days/year Up to 2 h per day

Exposed skin surface : 857.5 cm<sup>2</sup> Amounts used/applied per event : 491 g

Room volume: > 20 m3

Provide good general ventilation (at least 0.6 air change(s) per hour)

- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture

SU22:

Weight fraction substance in the product (when used as cleaning agent PROC 10) : up to maximum of  $25\,\%$ 

Weight fraction substance in the product (when used as cleaning agent with low-pressure cleaning equipment PROC 10): up to maximum of 5 %

Weight fraction substance in the product (when used as cleaning agent with high-pressure cleaning equipment PROC 11): up to maximum of 1 %

- · Other operational conditions
- Other operational conditions affecting environmental exposure

Observe section 6 of the Safety Data Sheet (Accidental release measures).

· Other operational conditions affecting worker exposure

Avoid contact with the skin and eyes.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Ensure adequate ventilation, especially in closed rooms.

- · Other operational conditions affecting consumer exposure Keep out of the reach of children.
- Other operational conditions affecting consumer exposure during the use of the product Application temperature : room temperature
- · Risk management measures
- · Worker protection

Do not eat, drink, smoke while working.

SU3:

Avoid direct contact with skin. Identify potential areas for indirect contact with the skin. Wear gloves (EN 374) if there is a risk of contact of the substance with the skin. Remove impurities / quantities immediately after spilling. Wash skin immediately after handling. Complete basic training of personnel, so that exposure is minimized and eventually the skin problems are reported. Other measures of skin protection are required, such as waterproof clothing and a protective mask during activities with high spread, leading to the likely significant release of aerosols (e.g. spraying).

Mixing operations (closed systems): provide adequate general ventilation (not less than 3 to 5 air changes per hour).

Preparation of material for application / blending operations (open systems): provide adequate controlled ventilation (10 to 15 air changes per hour).

Spray (automatic / robotic): carry out in ventilated booth with laminar air flow.

Spray: ensure an adequate controlled ventilation (10 to 15 air changes per hour). Wear a respiratory protection (standard EN 140 with Type A filter or better).

Roller coating, spraying and flow coating: provide additional ventilation where emissions occur.

Storage with occasional controlled exposure : store substance in a closed system.

SU 22:

Avoid direct contact with skin. Identify potential areas for indirect contact with the skin. Wear gloves (EN 374) if there is a risk of contact of the substance with the skin. Remove impurities / quantities

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immediately after spilling. Wash skin immediately after handling. Complete basic training of personnel, so that exposure is minimized and eventually the skin problems are reported. Other measures of skin protection are required, such as waterproof clothing and a protective mask during activities with high spread, leading to the likely significant release of aerosols (e.g. spraying).

Preparation of material for indoor application: provide adequate controlled ventilation (10 to 15 air changes per hour); avoid activities with more than 1 hour exposure.

Preparation of material for outdoor application: ensure that exploitation takes place outdoors; avoid activities with more than 1 hour exposure.

Indoor roller coating, spraying and flow coating: ensure adequate controlled ventilation (10 to 15 air changes per hour); wear respiratory protection (standard EN 140 with Type A filter or better).

Outdoor roller coating, spray and flow coating: ensure that the operation takes place outdoors, wear respiratory protection (standard EN 140 with Type A filter or better).

Indoor spraying: carry out in ventilated booth with laminar air flow.

Outdoor spraying: ensure that the operation takes place outdoors; avoid activities with more than 4 hours exposure; wear a full face respirator according to standard EN136 with Type A filter or better. Cleaning and maintenance of equipment: extinguish systems before opening and maintenance of equipment; avoid activities with more than 4 hours exposure.

Storage with occasional controlled exposure: store substance in a closed system; ensure an adequate controlled ventilation (10 to 15 air changes per hour).

#### · Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

### · Personal protective measures

Do not inhale gases / fumes / aerosols.

Tightly sealed goggles.

Avoid contact with the eyes.

### · Measures for consumer protection

Ensure adequate labelling.

Protective gloves

Tightly sealed goggles.

Keep locked up and out of the reach of children.

#### Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

- · Water Do not allow to reach ground water, water bodies or sewage system.
- · Soil Prevent contamination of soil.
- · Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- · Disposal measures Disposal must be made according to official regulations.
- Disposal procedures Product residues are incinerated as special waste.