

Safety Data Sheet
Page 1/17

in accordance with HSNO

Printing date: 11.06.2020 Version no. 1 Revision date: 11.06.2020

1 Identification of the substance or mixture and of the supplier

- · Product identifier
- · Trade name: EN 4700 ANTICORROSIVE
- · Article number: 1014
- · Relevant identified uses of the substance or mixture and uses advised against
- · Life cycle stages IS Use at industrial Sites
- · Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Product category PC9b Fillers, putties, plasters, modelling clay
- · Process category PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- Environmental release category ERC2 Formulation into mixture
- · Article category AC1 Vehicles
- · Technical function Corrosion inhibitor
- · Application of the substance / the mixture Surface protection
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

EN Chemicals S.A.

57 009 Kalochori

Thessalonikil, GREECE

T: +30 2310 755 428

F: +30 2310 755 428

info@enchemicals.com

www.enchemicals.com

· Further information obtainable from:

Wyatt Machine Tools (Rupes) NZ Limited

Address: 388 Church Street, Penrose, Auckland

Ph (09) 525 1000; Fax (09) 525 1009

• Emergency telephone number: NZ Emergency 0800 992 881 (0800WYATT1)

2 Hazards identification

· Classification of the substance or mixture



Flam. Liq. 3 H226 Flammable liquid and vapour.



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health hazard

Repr. 1A H360 May damage fertility or the unborn child.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

Acute Tox. 5 H333 May be harmful if inhaled. Aquatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Additional information:

- 3.1B Flammable liquid
- 6.1E Substances that are acutely toxic May be harmful, aspiration hazard
- 6.3A Substances that are irritating to the skin
- 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
- 9.1C Substances that are harmful in the aquatic environment
- 6.3A Substances that are irritating to the skin
- 6.9 (Respiratory tract irritant)
- 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
- · Label elements
- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS₀

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

xylene

toluene

Solvent naphtha (petroleum), light arom.

· Hazard statements

H226 Flammable liquid and vapour.



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H333 May be harmful if inhaled.

H315 Causes skin irritation.

H360 May damage fertility or the unborn child.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition/Information on ingredients

· Chemical characterisation: Mixtures

· **Description:** Mixture of hazardous substances

· Dangerous components:

CAS: 471-34-1 calcium carbonate 45-<50%

EINECS: 207-439-9 RTECS: EV 9580000

CAS: 1330-20-7 xylene 20-<25%

EINECS: 215-535-7 Flam. Liq. 3, H226

Index number: 601-022-00-9 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335

RTECS: ZE 2100000 Acute Tox. 5, H303

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

Aquatic Chronic 2, H411

Acute Tox. 4, H332; STOT SE 3, H335-H336 Acute Tox. 5, H313; Aquatic Acute 2, H401



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CAS: 13463-67-7 titanium dioxide 2.5-<5%

EINECS: 236-675-5 Acute Tox. 5, H333

CAS: 108-88-3 toluene ≥0.3-⟨2.5%

Index number: 601-021-00-3 & Repr. 1A, H360; STOT RE 2, H373; Asp. Tox. 1, H304

RTECS: XS 5250000 Skin Irrit. 2, H315 Acute Tox. 5, H303

CAS: 96-29-7 2-butanone oxime ≥0.1-<1%

Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317

Flam. Liq. 4, H227; Acute Tox. 5, H303

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:** 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.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- ·Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters

Firefighters should always protective equipment and breathing apparatus when handling fire coming from these products

- · Speial protective equipment and fire fighting procedures: No special measures required.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.



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HAZ CHEM CODE: 3YE

* 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

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.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 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.

· 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.

7 Handling and storage

- · Handling:
- · 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 ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· 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.
- · Specific end use(s) No further relevant information available.



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8 Exposure controls/personal protection

· Control parameters

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Ingredients with limit values that require monitoring at the workplace:

471-34-1 calcium carbonate

WES (New Zealand) Long-term value: 10 mg/m³

1330-20-7 xylene

WES (New Zealand) Long-term value: 217 mg/m³, 50 ppm IOELV (EU) Short-term value: 442 mg/m³, 100 ppm

Long-term value: 221 mg/m³, 50 ppm

Skin

108-88-3 toluene

WES (New Zealand) Long-term value: 188 mg/m³, 50 ppm

skin

IOELV (EU) Short-term value: 384 mg/m³, 100 ppm

Long-term value: 192 mg/m³, 50 ppm

Skin

· Regulatory information

WES (New Zealand): Workplace Exposure Standards and Biological Exposure Indices

IOELV (EU): (EU) 2019/1831

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

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.



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· 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

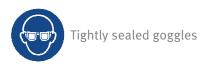
· Material of gloves

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 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: Fluorocarbon rubber (Viton)
- · For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Rubber gloves
- · Eye protection:



· Body protection: Protective work clothing

* 9 Physical and chemical properties

- Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Colour: Grey

Odour: CharacteristicOdour threshold: Not determined.pH-value: Not determined.

· Change in condition

Melting point/freezing point: Undetermined. **Initial boiling point and boiling range:** 137-143 °C



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· Flash point: 23 - 60 °C

· Flammability (solid, gas): Not applicable.

• Autoignition temperature: 450 °C

• **Decomposition temperature:** Not determined.

• Auto-ignition temperature: Product is not selfigniting.

• **Explosive properties:** Risk of explosion by shock, friction, fire or other sources of ignition.

· Explosion limits:

Lower: Not determined.

Upper: 7.5 Vol %

· Vapour pressure at 20 °C: 6.7-8.2 hPa

· Density at 20 °C: 1.5 g/cm³

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 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:

Organic solvents: 34.1 % VOC (EC) 511.8 g/l Solids content (volume): 65.1 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.



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- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

in accordance with HSNO

·LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 21,270 mg/kg (rat)

Dermal LD50 >7,139 mg/kg

Inhalative LC50/4 h >27.7 mg/l

471-34-1 calcium carbonate

Oral LD50 6,450 mg/kg (rat)

1330-20-7 xylene

 Oral
 LD50
 4,300 mg/kg (rat)

 Dermal
 LD50
 2,000 mg/kg (rabbit)

Inhalative LC50/4 h 11 mg/l (ATE)

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

Oral LD50 >6,800 mg/kg (rat)

Dermal LD50 >3,400 mg/kg (rab)

Inhalative LC50/4 h >10.2 mg/l (rat)

13463-67-7 titanium dioxide

Oral LD50 >20,000 mg/kg (rat)

Dermal LD50 >10,000 mg/kg (rabbit)

Inhalative LC50/4 h >6.82 mg/l (rat)

108-88-3 toluene

Oral LD50 5,000 mg/kg (rat)

Dermal LD50 (static) 12,124 mg/kg (rabbit)

Inhalative LC50/4 h 5,320 mg/l (mouse)

96-29-7 2-butanone oxime

Oral LD50 3,700 mg/kg (rat)

Dermal LD50 200-2,000 mg/kg (rat)



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Inhalative LC50/4 h 20 mg/l (rat)

- · Primary irritant effect:
- · **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- Serious eye damage/irritation No irritating effect.
- **Respiratory or skin sensitisation** Sensitising effect through inhalation is possible by prolonged exposure.
- · 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

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Repr. 1A

12 Ecological information

- ·Toxicity
- · Aquatic toxicity:

This product is not toxic for the aquatic life. Nevertheless do not dispose the product or any cleaning solvents used along with this product into the sea

· Persistence and degradability

This prouduct contains polyesteric molecules and organic solvents and is not known to be bioaccumulative. It can be considered as biodegradable in small quantities. In case of disposal, it should be treated as a hazardous material and should be disposed accordingly. Do not just throw it away

- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · 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.

Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
- **PBT:** This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT).
- · **vPvB**: Not applicable.



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• Other adverse effects No further relevant information available.

*13 Disposal considerations

- · 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.

14 Transport information

· UN-Number

· ADR, IMDG, IATA UN1263

· UN proper shipping name

· ADR UN1263 PAINT

· IMDG, IATA PAINT

·Transport hazard class(es)

·ADR



· Class 3 (F1) Flammable liquids.

·Label

· IMDG, IATA



· Class 3 Flammable liquids.

· Label 3

· Packing group

· ADR, IMDG, IATA

• Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code): 30



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Α

Trade name: EN 4700 ANTICORROSIVE

· EMS Number: F-E,<u>S-E</u>

· Stowage Category

· Transport in bulk according to Annex II of Marpol 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 3

• Tunnel restriction code D/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

·IATA

· Remarks: HAZ CHEM CODE: 3YE

· UN "Model Regulation": UN 1263 PAINT, 3, III

15 Regulatory information

•3Y

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

None of the ingredients is listed.

· New Zealand Inventory of Chemicals

471-34-1 calcium carbonate

1330-20-7 xylene

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

14807-96-6 Talc (Mg3H2(SiO3)4)

13463-67-7 titanium dioxide

78-92-2 butanol

108-88-3 toluene

96-29-7 2-butanone oxime



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112945-52-5 aerosil 200

68409-81-4 FATTY ACIDS C6-C19

64742-48-9 Naphtha (petroleum), hydrotreated heavy

1333-86-4 Carbon black

14808-60-7 Quartz (SiO2)

· HSNO Approval numbers

HSNO Approval number HSR 002662

Group standard name Surface Coatings and Colourandts (Flammable) Group Standard 2006

HSNO Hazard classification Refer to section 2

471-34-1 calcium carbonate: HSR006678

1330-20-7 xylene: HSR000983

64742-95-6 Solvent naphtha (petroleum), light arom.: HSR001503

108-88-3 toluene: HSR001227

96-29-7 2-butanone oxime: HSR001191

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms







GHS02 GHS07

07 GHS0

· Signal word Danger

· Hazard-determining components of labelling:

xylene

toluene

Solvent naphtha (petroleum), light arom.

· Hazard statements

H226 Flammable liquid and vapour.

H333 May be harmful if inhaled.

H315 Causes skin irritation.

H360 May damage fertility or the unborn child.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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



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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · 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
- · Chemical safety assessment: A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our current knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H303 May be harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eve damage.

H332 Harmful if inhaled.

H333 May be harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· Contact:

EN Chemicals S.A.

57 009 Kalochori

Thessalonikil, GREECE

T: +30 2310 755 428



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F: +30 2310 755 428

info@enchemicals.com

www.enchemicals.com

· 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

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

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

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 5: Acute toxicity - oral - Category 5

Acute Tox. 4: Acute toxicity - dermal - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity - Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

 $\label{eq:Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category \, 3$

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.

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Annex: Exposure scenario

- · Short title of the exposure scenario
- · Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- · Product category PC9b Fillers, putties, plasters, modelling clay
- · Process category PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- · Article category AC1 Vehicles
- Environmental release category ERC2 Formulation into mixture
- · Technical function Corrosion inhibitor
- · Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use** According to directions for use.
- · **Duration and frequency** Frequency of use:
- · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure

No special measures required.

Use only on hard ground.

· Other operational conditions affecting worker exposure

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Avoid long-term or repeated skin contact.

- · Other operational conditions affecting consumer exposure No special measures required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

Use product only in enclosed systems.



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· Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protective gloves

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

Pregnant women should strictly avoid inhalation or skin contact.

· Measures for consumer protection

Ensure adequate labelling.

Observe consumer information and advice on safe use.

· Environmental protection measures

·Water

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point. Do not allow to reach sewage system.

·Soil

The product is only processed over the concrete collecting basin.

Prevent contamination of soil.

- · Disposal measures Ensure that waste is collected and contained.
- Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- **Consumer** This product is to be used by professional technitians only.

· Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.