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

## - 1.1 Product identifier

- Trade name: HADALAN PUR Top 32P
- Article number: 50216 B
- 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

1-component solvent-containing protective and sealing paint in the outdoors

- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Heinrich Hahne GmbH \& Co. KG
Heinrich-Hahne-Weg 11
45711 Datteln
Tel.:02363/5663-0
Further information obtainable from:
Abteilung: Produktsicherheit
Tel.: 02363 5663-0
EMail: info@hahne-bautenschutz.de

- 1.4 Emergency telephone number:

Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen,
Tel.: 0551-19240

## SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
出 GHSO2 flame
Flam. Liq. 3 H226 Flammable liquid and vapour.


GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.


GHSO7

Skin Sens. $1 \quad$ H317 May cause an allergic skin reaction.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
- Hazard description: Xn Harmful
- Information concerning particular hazards for human and environment:

R 10 Flammable.
$R$ 20/21 Harmful by inhalation and in contact with skin.
$R$ 42/43 May cause sensitisation by inhalation and skin contact.
$R$ 52/53 Harmful to aquatic organisms, may cause long-term adverse
effects in the aquatic environment.
Contains isocyanates. May produce an allergic reaction.
Contains 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate. May produce an allergic reaction.
Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Trade name: HADALAN PUR Top 32P

## - 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


- Signal word Danger

Hazard-determining components of labelling:
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
Hydrocarbons, C9-16, hydrotreated, dearomatized
xylene, mixed isomers, pure
Hazard statements
H226 Flammable liquid and vapour.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.

## Precautionary statements

P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
$P 262$ Do not get in eyes, on skin, or on clothing.
P305+P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

- 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: Polyurethane prepolymer, containing solvents

| - Dangerous components: |  |  |
| :---: | :---: | :---: |
| CAS: 93763-35-0 EINECS: 297-854-1 | Hydrocarbons, C9-16, hydrotreated, dearomatized Xn R65 <br> (6) Āsp. Tox. 1, Hै $\overline{0} 4$ | 10-25\% |
| CAS: 1330-20-7 EINECS: 215-535-7 | xylene, mixed isomers, pure <br> Xn R20/21; $\mathbf{x}$ Xi R38 <br> R10 <br> (1) Flam. Liq. 3, H226; (1) Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 | 2.5-10\% |
| CAS: 4098-71-9 <br> EINECS: 223-861-6 | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate <br> T R23; $\boldsymbol{X}$ Xn R42/43; $\boldsymbol{X}$ Xi R36/37/38; ${ }^{\text {\| }}$ N R51/53 <br>  <br> H411, 〕. Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | < $2 \%$ |

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## Additional information:

For the wording of the listed risk phrases refer to section 16.
GISCODE: PU50

## SECTION 4: First aid measures

## - 4.1 Description of first aid measures

- After inhalation:

Immediately dexamethasone spray (Auxiloson, Pumocrt) inhale. Patient to fresh air, seek medical attention Inhalation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Eye for several minutes under running water with eyelids open. If symptoms persist, consult a doctor.
Unaffected eye protect, remove contact lenses.
After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

- Information for doctor:

Symptoms: After prolonged exposure to mild skin irritation possible. With aspiration can occur edema and pneumonia.
Irritating: on the skin and mucous membranes, has a narcotic effect. Decontamination, symptomatic treatment. After swallowing Induce vomiting or gastric lavage with enclosing administration of activated charcoal and sodium sulfate (each 1 tablespoon to l/4 liter of water). Do not give adrenaline or its derivatives. A toxic pulmonary edema can be detected radiographically at an early stage in a chest x-ray about 8 hours after inhalation (perihilar opacities). For comparison, therefore, a chest radiograph is recommended as soon as possible after inhalation, if the risk of pulmonary edema is suspected.
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: Water spray, foam, powder, CO2
- For safety reasons unsuitable extinguishing agents: Water with full jet
-5.2 Special hazards arising from the substance or mixture
Case of fire, CO2, CO and nitrous gases possible.
Product reacts with water. Prevent ingress of water into the product and product containers - bursting through decomposition. Prevent spreading of vapors or product from reaching sewage system - risk of explosion. Spilled not burning product cover with foam. Affected by the fire cool, undamaged containers with water spray.
- 5.3 Advice for firefighters
- Protective equipment: Use self contained breathing apparatus.
- Additional information Contaminated extinguishing water separately.


## SECTION 6: Accidental release measures

```
- 6.1 Personal precautions, protective equipment and emergency procedures
    Wear protective equipment. Keep unprotected persons away.
    6.2 Environmental precautions:
    Inform respective authorities in case of seepage into water course or sewage system.
    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.
    Ensure adequate ventilation.
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Do not flush with water or aqueous cleansing agents
Clean on exit / discharge larger amounts of soil surface and discard.
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.
Prevent formation of aerosols.
Facilities, equipment, containers tightly closed.

- Information about fire - and explosion protection:

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, dry place.
Keep ignition sources away.

- Information about storage in one common storage facility: Do not store with food, beverages and tobacco.
- 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:

1330-20-7 xylene, mixed isomers, pure (2.5-10\%)
WEL Short-term value: $441 \mathrm{mg} / \mathrm{m}^{3}, 100 \mathrm{ppm}$
Long-term value: $220 \mathrm{mg} / \mathrm{m}^{3}, 50 \mathrm{ppm}$
Sk; BMGV
4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (< 0.5\%)
WEL Short-term value: $0.07 \mathrm{mg} / \mathrm{m}^{3}$
Long-term value: $0.02 \mathrm{mg} / \mathrm{m}^{3}$
Sen; as -NCO

- 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.
Respiratory protection:
In inadequately ventilated places require respiratory protection. Recommendation: filter type $A(B)$, possibly with P3.

- Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
(Contd. on page 5)

Trade name: HADALAN PUR Top 32P
(Contd. of page 4)
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.
Recommended: nitrile gloves or butyl rubber.
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.
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 <br> - General Information <br> Appearance: <br> Form: <br> Colour: <br> Odour: | Fluid <br> according to product specification <br> Type specific, according solvents |
| Change in condition <br> Boiling point/Boiling range: |  |
| - Undetermined. |  |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

Incomplete combustion of carbon monoxide, oxides of nitrogen. Violent reaction with strong oxidizing agents. Reacts with: amines, strong bases, alcohols, as well as elimination of CO2 with water and carboxylic acids.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Water, strong oxidizing agents, amines, alcohols, strong bases.
- 10.6 Hazardous decomposition products:

No decomposition if used according to specifications.
In combustion emits toxic fumes of carbon monoxide, carbon dioxide.

## SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification:

1330-20-7 xylene, mixed isomers, pure

| O | LD50 | $8700 \mathrm{mg} / \mathrm{kg}$ (rat) |
| :---: | :---: | :---: |
| ma | LD50 | $2000 \mathrm{mg} / \mathrm{kg}$ |
| dat |  | 6350 mg |

- Primary irritant effect:
- on the skin: Irritant
- on the eye: Irritant
- Sensitisation:

Sensitisation possible through inhalation.
Sensitisation 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:
Harmful
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.
- Other information: Forms solid reaction product with water.
- 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.

- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

Trade name: HADALAN PUR Top 32P
(Contd. of page 6)
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 empty into drains.
Cover Verschütete quantities with wet, absorbent material (sand, sawdust, general-purpose binder). Record after about 1 hour in the waste container can not be ver racket Iessen (CO2 evolution). Moisturizing and secure place outdoors 7-14 days and then dispose of regulated waste.

## - European waste catalogue

$080111^{*}$ waste paint and varnish containing organic solvents or other dangerous substances

## - Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

## SECTION 14: Transport information

| $\cdot$ 14.5 Environmental hazards: | Not applicable. |
| :--- | :--- |
| $\cdot$ 14.6 Special precautions for user | Not applicable. |
| $\cdot$14.7 Transport in bulk according to Annex II of  <br> MARPOL73/78 and the IBC Code$\quad$ Not applicable. |  |
| $\cdot$ Transport/Additional information: | Not hazardous according to ADR. |

## SECTION 15: Regulatory information

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

- National regulations:
- Technical instructions (air):

| Class | Share in \% |
| :---: | :---: |
| $I$ | 0.4 |
| $N K$ | 16.0 |

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
Other regulations, limitations and prohibitive regulations
This product is subject to Directive 2004/42/EC.
EU limit value for the VOC content of this product is ready for use: cat A/i $500 \mathrm{~g} / l$ (2010).
The product contains a ready to use product: <200 g/l VOC.
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

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.

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H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
$R 23$ Toxic by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R38 Irritating to skin.
R42/43 May cause sensitisation by inhalation and skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damageleye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation-Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

