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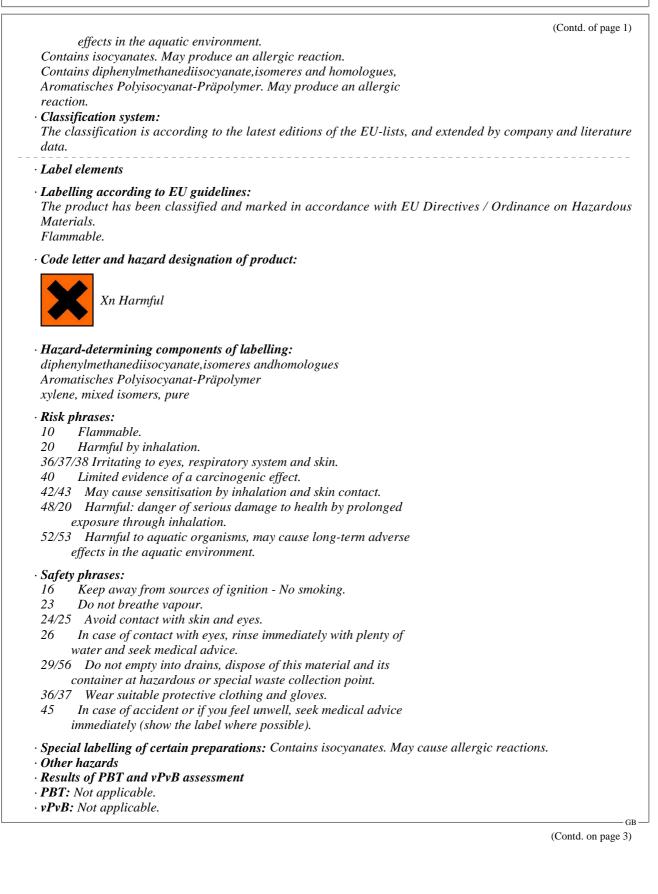
	er
Product identifi Trade name: H	ADALAN DD 32P
Article number.	
	fied uses of the substance or mixture and uses advised against
Application of t	he substance / the preparation
Solvent-contair chemical loads	ning, chemical-resistant synthetic resin sealing for floors exposed to high mechanical an
Details of the si	upplier of the safety data sheet
Manufacturer/S	Supplier:
Heinrich Hahne Heinrich-Hahne	e GmbH & Co. KG
45711 Datteln	Tel.:02363/5663
Further inform	ation obtainable from:
Abteilung: Prod	luktsicherheit
Tel.: 02363 566 FMail: info@ho	3-0 hne-bautenschutz.de
Emergency tele	
Giftinformation	szentrum Nord (GIZ Nord) Universität Göttingen,
Tel.: 0551-1924	20
Hazards iden	tification
Classification -	f the substance or mixture
	cording to Regulation (EC) No 1272/2008
GHS0	02 flame
Flam. Liq. 3	H226 Flammable liquid and vapour.
Flam. Liq. 3	H226 Flammable liquid and vapour.
	H226 Flammable liquid and vapour. 08 health hazard
GHSC Resp. Sens. 1	08 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHS0	08 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHSC Resp. Sens. 1	08 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 07
GHSC Resp. Sens. 1 GHSC Skin Irrit. 2	08 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 07 H315 Causes skin irritation.
GHSO Resp. Sens. 1 GHSO Skin Irrit. 2 Eye Irrit. 2	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 207 H315 Causes skin irritation. H319 Causes serious eye irritation.
GHSC Resp. Sens. 1 GHSC Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
GHSO Resp. Sens. 1 CONTROLOGIES Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.
GHSC Resp. Sens. 1 GHSC Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects.
GHSC Resp. Sens. 1 GHSC Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic Classification a	 D8 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects. ccording to Directive 67/548/EEC or Directive 1999/45/EC
GHSC Resp. Sens. 1 Constraints of the sense of the sense Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic Classification a Hazard description	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects.
GHSC Resp. Sens. 1 Constraints of the sense of the sense Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic Classification a Hazard descript Information con R 10 Flamm	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects. c cording to Directive 67/548/EEC or Directive 1999/45/EC tion: Xn Harmful ncerning particular hazards for human and environment:
GHSC Resp. Sens. 1 GHSC Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic Classification a Hazard descript Information col R 10 Flamm R 20 Harmfi	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects. ccording to Directive 67/548/EEC or Directive 1999/45/EC tion: Xn Harmful ncerning particular hazards for human and environment: able. ul by inhalation.
GHSC Resp. Sens. 1 Construction Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic Classification a Hazard descript Information con R 10 Flamm R 20 Harmft R 36/37/38 Irrit R 40 Limited	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects. ccording to Directive 67/548/EEC or Directive 1999/45/EC tion: Xn Harmful neerning particular hazards for human and environment: able. ul by inhalation. ating to eyes, respiratory system and skin. d evidence of a carcinogenic effect.
GHSC Resp. Sens. 1 Construction Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic Classification a Hazard descript Information con R 10 Flamma R 20 Harmft R 36/37/38 Irrit R 40 Limited R 42/43 May of	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects. ccording to Directive 67/548/EEC or Directive 1999/45/EC tion: Xn Harmful neerning particular hazards for human and environment: able. ul by inhalation. ating to eyes, respiratory system and skin. d evidence of a carcinogenic effect. cause sensitisation by inhalation and skin contact.
GHSC Resp. Sens. 1 GHSC Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic Classification a Hazard descript Information con R 10 Flamm R 20 Harmft R 36/37/38 Irrit R 40 Limited R 48/20 Harm	 28 health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 27 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. c 3 H412 Harmful to aquatic life with long lasting effects. ccording to Directive 67/548/EEC or Directive 1999/45/EC tion: Xn Harmful neerning particular hazards for human and environment: able. ul by inhalation. ating to eyes, respiratory system and skin. d evidence of a carcinogenic effect.



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-	n of a polyisocyanate based on diphenylmethane diisocyanate	
CAS: 9016-87-9	ents: diphenylmethanediisocyanate,isomeres and homologues Xn R20-40-48; Xn R42/43; X Xi R36/37/38	50-100%
	& Resp. Sens. 1, H334; (1) Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light Xn R65; BN R51/53 R10-66-67	10-25%
	🚸 Flam. Liq. 3, H226; 🚸 Aquatic Chronic 2, H411	
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixed isomers, pure X Nn R20/21; X IR38 R10	2.5-10%
	Flam. Liq. 3, H226; () Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	

4 First aid measures

- · Description of first aid measures
- General information:

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

· After inhalation:

Supply fresh air and to be sure call for a 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: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 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 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Ode larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

6 Accidental release measures

• *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*

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· 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.	
· 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.	
Do not flush with water or aqueous cleansing agents	
· 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. Prevent formation of aerosols.

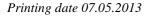
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Keep away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

•]	Ingredients	with li	imit values	that reauire	monitoring	at the workplace:

9016	87-9 diphenylmethanediisocyanate, isomeres and homologues (25-50%)	
WEL	Short-term value: 0.07 mg/m ³	
	Long-term value: 0.02 mg/m ³	
	Sen; as -NCO	
1330-	20-7 xylene, mixed isomers, pure (10-25%)	
WEL	Short-term value: 441 mg/m ³ , 100 ppm	
	Long-term value: 220 mg/m ³ , 50 ppm	
	Sk; BMGV	
· Addit	ional information: The lists valid during the making were used as basis.	
· Expo	sure controls	
· Perso	nal protective equipment:	
· Gene	ral protective and hygienic measures:	
Keep	away from foodstuffs, beverages and feed.	
Imme	diately remove all soiled and contaminated clothing	
Wash	hands before breaks and at the end of work.	
Avoic	contact with the eyes and skin.	
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• 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.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

· Eye protection: Tightly sealed goggles

9 Physical and chemical properties

> 1 nysteat and enclinear pro	
· Information on basic physical	and chemical properties
· General Information	
· Appearance:	
Form:	Fluid
Colour:	Light yellow
· Odour:	Characteristic
· Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	137°C
· Flash point:	30°C
· Ignition temperature:	210°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0.4 Vol %
Upper:	7.0 Vol %
• Vapour pressure at 20°C:	6.7 hPa
· Density at 20°C:	1.09 g/cm ³
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Viscosity:	
Kinematic at 20°C:	20 s (DIN 53211/4)
• Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values relevant for classification:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral LD50 >15000 mg/kg (rat)

Inhalative LC50/4 h 490 mg/m3 (rat)

1330-20-7 xylene, mixed isomers, pure

 Oral
 LD50
 8700 mg/kg (rat)

 Dermal
 LD50
 2000 mg/kg (rbt)

 Inhalative
 LC50/4 h
 6350 mg/l (rat)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through inhalation. Sensitization 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

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Harmful to aquatic organisms

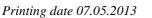
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

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[·] Toxicity



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13 Disposal considerations

• Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, IMDG, IATA	1139
UN proper shipping name	
ADR	1139 COATING SOLUTION (not viscous)
IMDG, IATA	COATING SOLUTION
Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	3 Flammable liquids. 3
Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	
Environmeniai nazaras.	nein
	hent
Marine pollutant:	Warning: Flammable liquids.
Marine pollutant: Special precautions for user	
Marine pollutant: Special precautions for user Danger code (Kemler):	Warning: Flammable liquids.
Marine pollutant: Special precautions for user Danger code (Kemler):	Warning: Flammable liquids. 30 F-E, <u>S-E</u>
Marine pollutant: Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids. 30

15 Regulatory information

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

· National regulations:

• Technical instructions (air):

Class	Share in %
Ι	31.0
NK	17.0

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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· Other regulations, limitations and prohibitive regulations

• **VOC (EU)** 185.3 g/l

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- 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 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R38 Irritating to skin.
- *R40 Limited evidence of a carcinogenic effect.*
- *R42/43* May cause sensitisation by inhalation and skin contact.
- *R48 Danger of serious damage to health by prolonged exposure.*
- *R51/53* Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- *R65 Harmful: may cause lung damage if swallowed.*
- *R66 Repeated exposure may cause skin dryness or cracking.*
- *R67 Vapours may cause drowsiness and dizziness.*

· 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) ICAO: International Civil Aviation Organization

- 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
- IMDG: International Maritime Code for Dangerous Good IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- *LC50: Lethal concentration, 50 percent*
- LD50: Lethal dose, 50 percent