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		Issuing date : 03/06/2014
		Supersedes : 28/10/2013

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

1.1. Product identifier

Trade name/designation : Vaebond PU

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

Main use category : Industrial uses
 Specific use(s) : Adhesives

1.3. Details of the supplier of the safety data sheet

Company : Imperbel NV/SA
 Bergensesteenweg 32
 1651 Lot , Belgium
 Telephone +32 2 334 87 00
 Telefax: +32 2 377 01 90
 E-mail: infobe@derbigum.com
 Website: www.derbigum.com

1.4. Emergency telephone number

Emergency telephone : + 32 3 575 55 55 (24h/24h)

IRELAND (REPUBLIC OF)
 National Poisons Information Centre
 Beaumont Hospital : +35 318 37 99 64

UNITED KINGDOM
 National Poisons Information Service
 (Newcastle Centre) : 0870 600 6266 (UK only)
 Regional Drugs and Therapeutics Centre,
 Wolfson Unit

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.


Acute Tox. 4 (Inhalation:vapour)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373

Full text of H-phrases: see section 16

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 1999/45/EC.

Carc.Cat.3; R40
 Xn; R48/20
 Xn; R42

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Xi; R36/37/38
Xi; R43

Full text of R-phrases: see section 16

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Hazard pictograms :



Signal word :

Danger

Contains:

Diphenylmethane-4,4'-diisocyanate

Hazard statements :

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.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements :

P201 - Obtain special instructions before use.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor/.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

2.3. Other hazards

Other hazards :

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.
PBT/vPvB data :
This information is not available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Diphenylmethane-4,4'-diisocyanate	(CAS No.) 101-68-8 (EC No) 202-966-0 (EC Index) 615-005-00-9 (REACH-no) 01-2119457014-47	7 - 15	Carc. Cat.3; R40 Xn; R20 Xn; R48/20 Xi; R36/37/38 R42 R43

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diphenylmethane-4,4'-diisocyanate	(CAS No.) 101-68-8 (EC No) 202-966-0 (EC Index) 615-005-00-9 (REACH-no) 01-2119457014-47	7 - 15	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317

Full text of R- and H-phrases: see section 16

Identification of the substance or mixture : Adhesive

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Keep at rest.
Provide fresh air.
In case of shortness of breath, give oxygen.
If breathing is irregular or stopped, administer artificial respiration.
Call a physician immediately.
- Skin contact : Take off immediately all contaminated clothing.
Rinse immediately with plenty of water and seek medical advice.
Wash contaminated clothing before reuse.
- Eye contact : Remove contact lenses.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- Ingestion : Rinse mouth.
Drink 1 or 2 glasses of water.
Do NOT induce vomiting
Call a physician immediately.
- Additional advice : First aider: Pay attention to self-protection!
See also section 8 .
Never give anything by mouth to an unconscious person or a person with cramps.
Symptoms may be delayed.
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
When in doubt or if symptoms are observed, get medical advice.

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

- Inhalation : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause nose, throat, and lung irritation. The following symptoms may occur: Respiratory difficulties . Harmful: danger of serious damage to health by prolonged exposure through inhalation. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.
- Skin contact : Causes skin irritation. May cause an allergic skin reaction. The following symptoms may occur: Skin rash/inflammation, erythema (redness) .
- Eye contact : Causes serious eye irritation. The following symptoms may occur: Lachrymation .
- Ingestion : Health injuries may be delayed.

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Other adverse effects : May cause damage to organs through prolonged or repeated exposure.
Suspected of causing cancer.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use powder, CO₂, water spray or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons : Strong water jet .

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible .

Specific hazards : Evacuate area.
Provide adequate ventilation.
Fire may cause evolution of:
Carbon oxides (CO, CO₂),
Isocyanates .
Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.

5.3. Advice for firefighters

Advice for firefighters : Special protective equipment for firefighters. :
In case of fire: Wear self-contained breathing apparatus.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Provide adequate ventilation.
Evacuate area.
Use personal protective equipment as required.
See also section 8 .
Avoid contact with skin, eyes and clothes.
Do not breathe vapour/spray.
Material can create slippery conditions.

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place.
See also section 8.

6.2. Environmental precautions

Environmental precautions : Prevent product from entering drains.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation, especially in confined areas.
Stop leak if safe to do so.
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Collect in closed and suitable containers for disposal.
Dispose according to legislation.

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6.4. Reference to other sections

Personal protection equipment: see section 8 .
Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on general occupational hygiene : Keep good industrial hygiene.
Wash hands and face before breaks and immediately after handling of the product.
When using do not eat, drink or smoke.
Keep away from food, drink and animal feedingstuffs.
Keep work clothes separately.
Wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed in a cool, well-ventilated place.
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.
Do not store near or with any of the incompatible materials listed in section 10.
Recommended storage temperature:
Keep at temperatures between 15 and 35 °C.

Packaging materials : Keep/Store only in original container.

7.3. Specific end use(s)

not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

Diphenylmethane-4,4'-diisocyanate (101-68-8)		
Austria	MAK (mg/m ³)	0,05 mg/m ³
Austria	MAK (ppm)	0,005 ppm
Austria	MAK Short time value (mg/m ³)	0,1 mg/m ³
Austria	MAK Short time value (ppm)	0,01 ppm
Belgium	Limit value (mg/m ³)	0,052 mg/m ³
Belgium	Limit value (ppm)	0,005 ppm
France	VLE (mg/m ³)	0,2 mg/m ³
France	VLE (ppm)	0,02 ppm
France	VME (mg/m ³)	0,1 mg/m ³
France	VME (ppm)	0,01 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,05 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0,005 ppm
Spain	VLA-ED (mg/m ³)	0,052 mg/m ³
Spain	VLA-ED (ppm)	0,005 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,05 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³

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Diphenylmethane-4,4'-diisocyanate (101-68-8)		
Denmark	Grænseværdie (langvarig) (ppm)	0,005 ppm
Hungary	AK-érték	0,05 mg/m ³
Hungary	CK-érték	0,05 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,02 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	0,07 mg/m ³
Lithuania	NRV (mg/m ³)	0,1 mg/m ³
Lithuania	NRV (ppm)	0,01 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	0,05 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	0,005 ppm
Norway	Gjennomsnittsverdier (Kortidsverdi) (ppm)	0,01 ppm (listed in the List of Administrative Norms)
Poland	NDS (mg/m ³)	0,03 mg/m ³
Poland	NDSch (mg/m ³)	0,09 mg/m ³
Poland	NDSP (mg/m ³)	0,2 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0,03 mg/m ³ (Isocyanates)
Slovakia	NPHV (Hraničná) (mg/m ³)	0,05 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,03 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0,002 ppm
Sweden	takgränsvärde (TGV) (mg/m ³)	0,05 mg/m ³
Sweden	takgränsvärde (TGV) (ppm)	0,005 ppm

Recommended monitoring procedures: : Concentration measurement in air
Personal air monitoring

8.2. Exposure controls

- Personal protection equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Full face mask (EN 136) (EN136).
Half-face mask (DIN EN 140) (EN140).
Filter type: A (EN141)
Self-contained open-circuit compressed air breathing apparatus (EN 137)
- Hand protection : Wear chemically resistant gloves (tested to EN374) . Short-term exposure (>30'), Penetration index 2 & Long-term exposure (>480'), Penetration index 6 : NBR (Nitrile rubber) (>0,4 mm). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
- Eye protection : Tightly fitting safety goggles (EN 166)
- Body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Overalls, apron and boots recommended.
- Thermal hazard protection : Not required under normal use.
Use dedicated equipment.
- Engineering control measures : Provide adequate ventilation.
Use only in area provided with appropriate exhaust ventilation.
A washing facility/water for eye and skin cleaning purposes should be

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present.
Organisational measures to prevent/limit releases, dispersion and exposure :
See also section 7 .

Environmental exposure controls : Do not allow to enter into surface water or drains.
Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: liquid
Colour	: brown
Odour	: characteristic
Odour threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 200 °C (DIN 51755)
Evaporation rate	: No data available
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Density	: 1,10 - 1,20 g/cm ³ (@ 20°C)
Water solubility	: @ 20°C Immiscible / Slightly miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: 5500 - 10500 mPa.s (Brookfield, 20°C, Spindle n° 5, rot. freq. 20 min-1)
Explosive properties	: Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2. Other information

Pour point : No data available
Volatile organic compounds (VOC) content in percent by weight : 0 % (VOCV 814.018)(CH)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : See also section 10.5

10.2. Chemical stability

Stability : Stable under recommended storage conditions., Unstable on exposure to moisture.

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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions : Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.
Amines and alcohols cause exothermic reactions.
See also section 10.5.

10.4. Conditions to avoid

Conditions to avoid : Heat.
Exposure to moisture.
See also section 7. Handling and storage .

10.5. Incompatible materials

incompatible materials : Alcohols, Amines, humid air and water . See also section 7. Handling and storage .

10.6. Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition can lead to the escape of irritating gases and vapours. Possible decomposition products are: COx, Isocyanates .

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

Diphenylmethane-4,4'-diisocyanate (101-68-8)	
LC50/inhalation/4h/rat	369 mg/m ³
ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	11,000 mg/l/4h
ATE CLP (dust,mist)	1,500 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: No data available

Serious eye damage/eye irritation : Causes serious eye irritation.
pH: No data available

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.


Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

Other information

Symptoms related to the physical, chemical and toxicological characteristics, see section 4.2.

SECTION 12: Ecological information

12.1. Toxicity

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Diphenylmethane-4,4'-diisocyanate (101-68-8)	
LC50 fish 1	LC0 > 3000 mg/l (96h)(Oryzias latipes)
EC50 Daphnia 1	129,7 mg/l (24h)(Daphnia magna)
EC50 other aquatic organisms 1	> 1640 mg/l (72h)(Desmodesmus subspicatus)
NOEC chronic crustacea	> 10 mg/l (21days)(Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability : No data available

12.3. Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : No data available

12.4. Mobility in soil

Mobility : This information is not available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB data : This information is not available.

12.6. Other adverse effects

Other information : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products : Handle with care.
 Safe handling: see section 7 :
 Handling and storage .
 Prevent product from entering drains.
 Do not allow to enter into surface water or drains.
 Collect and dispose of waste product at an authorised disposal facility.
 Dispose according to legislation.

Contaminated packaging : Delivery to an approved waste disposal company.

Further ecological information : Avoid release to the environment.

List of proposed waste codes/waste designations in accordance with EWC : Classified as hazardous waste according to European Union regulations.
 The following Waste Codes are only suggestions:
 08 05 01*
 (080501 - waste isocyanates).
 Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1. UN number

UN-No. : NA

14.2. UN proper shipping name

Proper Shipping Name : NA

Proper shipping name IATA/IMDG : NA

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14.3. Transport hazard class(es)

14.3.1. Overland transport

ADR/RID : Not classified as dangerous for conveyance in the meaning of the Carriage of Dangerous Goods by Road and Rail.
 Class(es) : Not applicable

14.3.2. Inland waterway transport (ADN)

ADN : Not applicable

14.3.3. Transport by sea

IMDG : Not classified for this transport way.
 Class or Division : Not applicable

14.3.4. Air transport

ICAO/IATA : Not classified for this transport way.
 Class or Division : Not applicable

14.4. Packing group

Packing group : NA

14.5. Environmental hazards

Other information : Not applicable.

14.6 Special precautions for user

Special precautions for user : Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

State during transport (ADR-RID) : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Restrictions on use : REACH Annex XVII Art 3 & 56

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006 :

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 :

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 : Vaebond PU
 56. Methylenediphenyl diisocyanate (MDI) : Diphenylmethane-4,4'-diisocyanate

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

Authorisations : none
 Authorisations : Not applicable

Volatile organic compounds (VOC) content in percent by weight : 0 % (VOCV 814.018)(CH)

15.1.2. National regulations

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DE : WGK : 2
DE : German storage class (LGK) : LGK 10 - Combustible liquids
DE : TA-Luft : Organic Substances
DE : Technische Regeln für Gefahrstoffe (TRGS) : applicable
FR : Installations classées : 1158
NL : ABM : 11 - Weinig schadelijk voor in het water levende organismen (B)
NL : NeR (Nederlandse emissie Richtlijn) : Organic substances in vapour or gaseous form

15.2. Chemical safety assessment

Chemical Safety Assessment : For the following substances of this mixture a chemical safety assessment has been carried out:
Diphenylmethane-4,4'-diisocyanate

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:


Acute Tox. 4 (Inhalation) : Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour) : Acute toxicity (inhal.), Category 4
Carc. 2 : Carcinogenicity, Category 2
Eye Irrit. 2 : Serious eye damage/eye irritation Category 2
Resp. Sens. 1 : Sensitisation - Respirat., Hazard Category 1
Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Skin Sens. 1 : Skin sensitisation, hazard category 1
STOT RE 2 : Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3 : Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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.
H351 : Suspected of causing cancer.
H373 : May cause damage to organs through prolonged or repeated exposure.
R20 : Harmful by inhalation.
R36/37/38 : Irritating to eyes, respiratory system and skin.
R40 : Limited evidence of a carcinogenic effect.
R42 : May cause sensitization by inhalation.
R43 : May cause sensitisation by skin contact.
R48/20 : Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Xi : Irritant
Xn : Harmful

Key literature references and sources for data : European Chemicals Bureau (<http://ecb.jrc.ec.europa.eu/>)
SDS from supplier: revision date: 10.07.2012

Other information : CLP, Article 9, Calculation method

Safety datasheet sections which have been updated : 2,4,11,16

Abbreviations and acronyms : ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit

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REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 EC50 = Median Effective Concentration
 CSR = CSR = Chemical Safety Report
 LD50 = Median lethal dose
 LC50 = Median lethal concentration
 NA = not applicable
 TLV = Threshold limits
 TWA = time weighted average
 STEL = Short term exposure limit
 persistent, bioaccumulating and toxic (PBT).
 vPvB = very persistent and very bioaccumulating
 WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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