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Safety Data Sheet

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

Material Name: EPDM Bonding Adhesive BA-2004 (T)
MSDS Established date: 2011-10-21

FS-002

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier: EPDM Bonding Adhesive BA-2004(T)

Synonyms: EPDM BONDING 5 GAL T

CAS No. : N.A.

EC index No. : N.A.

EINECS No. : N.A.

RTECS No. : N.A.

NFPA code : N.D.

Molecular weight : N.A.

Formula : N.A.

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

1.2.1 Relevant identified uses

Adhesive

1.2.2 Uses advised against

1.3 Details of the supplier of the safety data sheet:

Firestone Building Products

Ikaroslaan 75

B-1930 Zaventem

Tel. : +32 2 711 44 50

Fax : +32 2 721 27 18

Email: info@fbpe.be

1.4 Emergency Telephone Number:

+32 70 245 245

Poison Centre

p/a Militair Hospitaal Koningin Astrid, Bruynstraat 1, B-1120 Brussel

2. Hazardous Identification

2.1 Classification of the substance or mixture

Classification according to directives 67/548/EEC and 1999/45/EC

2.2 Label elements :

Symbol(s) :



Highly Flammable



Harmful



Dangerous for the environment

Contains : toluene, hexane, acetone,

Hazard Statement(s):

R11 : Highly Flammable

R38 : Irritating to skin

R48/20 : Harmful: danger of serious damage to health by prolonged exposure through inhalation

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R63 : Possible risk of harm to the unborn child
R65 : Harmful: may cause lung damage if swallowed
R67 : Vapours may cause drowsiness and dizziness

Precautionary Statement(s) :

S16: Keep away from sources of ignition – No smoking
S36/37: Wear suitable protective clothing and gloves
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
S53 : Avoid exposure – obtain special instructions before use

2.3 Other Hazards:

3. Composition/Information on Ingredients

CAS	EC-No	Component	Classification according to Regulation (EC) No		Pre-Registration No. (REACH)	%
			67/548/EEC (DSD)	1272/2008 (CLP)		
108-88-3	203-625-9	Toluene	F, Xn; R11-38-48/20- 63-65-67	-	05-2114737386-41-0000	34-44
64741-84-2	265-086-6	Naphtha, petroleum, solvent-refined light (primarily hexane)	T; R :45-46-65	-	05-2118312458-43-0000.	25-35
67-64-1	200-662-2	Acetone	F, Xi, R :11-36-66-67	-	05-2114737378-38-0000	5-10
1330-20-7	215-535-7	Xylenes (o-, m-, p-isomers)	Xn ; R :10-20/21-38	-		<1
1314-13-2	215-222-5	Zinc oxide	N ; R :50/53	-		<0.3
-	-	Polypropylene			05-2114743376-44-0000	<12
-	-	Non-hazardous ingredients	-	-	-	11-36
1314-13-2	215-171-9	Magnesium oxide	-	-	05-211473782-49-0000	<1

(1) For R-phrases in full: see heading 16

4. First Aid Measures

4.1 Description of first aid measures

Inhalation:

- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

Skin

- Consult a doctor/medical service if irritation persists
- Soap may be used
- Wash immediately with lots of water

Eyes

- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

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Ingestion

- Consult a doctor/medical service if you feel unwell
- Never give water to an unconscious person
- Do not induce vomiting

4.2 Most important symptoms and effects, both acute and delayed
No information available

4.3 Indication of any immediate medical attention and special treatment needed
No information available

5. Fire-Fighting Measures

See Section 9 for Flammability Properties

5.1 Extinguishing Media

Suitable extinguishing media:

- Water spray
- Polyvalent Foam
- BC powder
- Carbon dioxide

Unsuitable extinguishing media:

- Solid water jet ineffective as extinguishing medium

5.2 Special hazards arising from the substances or mixture

- Gas/Vapour spreads at floor level: ignition hazard
- May build up electrostatic charges: risk of ignition
- Upon combustion CO and CO₂ are formed

5.3 Advice for Firefighters

- If exposed to fire cool the closed containers by spraying with water
- Take account of environmentally hazardous firefighting water
- Use firefighting water moderately and contain it
- Heat/Fire exposure: compressed air/oxygen apparatus
- Large spills/in enclosed spaces: compressed air apparatus

6. Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

Respiratory protection:

- High vapour concentration: gas mask with filter A

Hand protection:

- Gloves

Suitable materials: No data available

Breakthrough time: N.D.

Eye protection:

- Protective goggles

Skin protection:

- Head/neck protection
- Protective clothing

Suitable materials: No data available

6.2 Environmental Precautions

- Prevent soil and water pollution
- Prevent spreading in sewers
- Contain leaking substance

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- Dam up the liquid spill
 - Try to reduce evaporation
- 6.3 Methods and material for containment and cleaning up**
- Take up liquid spill into inert absorbent material, e.g.: sand/earth
 - Scoop absorbed substance into closing containers
 - Carefully collect the spill/leftovers
 - Do not use compressed air for pumping over spills
 - Clean contaminated surfaces with an excess of water
 - Wash clothing and equipment after handling
 - Take collected spill to manufacturer/competent authority
- 6.4 Reference to other sections**

7. Handling and Storage

- 7.1 Precautions for safe handling**
- Observe strict hygiene
 - Use spark-/explosion proof appliances and lighting system
 - Take precautions against electrostatic charges
 - Handle uncleaned empty containers as full ones
 - Do not discharge the waste into the drain
- 7.2 Conditions for safe storage, including an incompatibilities**
- Keep container tightly closed
 - Ventilation at floor level
 - Provide for a tub to collect spills
 - Meet the legal requirements
 - Keep away from: heat sources, ignition sources, oxidizing agents, acids, bases
- Storage temperature:** N.D. °C
Quantity limits: N.D. kg
Storage life: N.D. days
Materials for packaging:
- Suitable : no data available
 - To avoid : no data available
- 7.3 Specific end use(s):**
- See information supplied by the manufacturer

8. Exposure Controls/Personal Protection

- 8.1 Control parameters:**
Exposure limits have been developed for one or more of this product's components

Toluene (108-88-3) EU (IOELV):	50 ppm TWA; 192 mg/m ³ TWA 100 ppm STEL; 384 mg/m ³ STEL Possibility of significant uptake through the skin
Austria:	50 ppm MAK; 190 mg/m ³ MAK 100 ppm STEL (4 X 15 min); 380 mg/m ³ STEL (4 X 15 min) skin notation
Belgium:	50 ppm TWA; 192 mg/m ³ TWA 100 ppm STEL; 384 mg/m ³ STEL Skin

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Denmark:	25 ppm TWA; 94 mg/m ³ TWA Potential for cutaneous absorption
Finland:	25 ppm TWA; 81 mg/m ³ TWA 100 ppm STEL; 380 mg/m ³ STEL Potential for cutaneous absorption
France:	50 ppm VME (restrictive limit); 192 mg/m ³ VME (restrictive limit) 100 ppm VLCT (restrictive limit); 384 mg/m ³ VLCT (restrictive limit) Risk of cutaneous absorption
Germany (TRGS):	50 ppm TWA (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 4); 190 mg/m ³ TWA (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 4) skin notation
Germany (DFG):	50 ppm MAK; 190 mg/m ³ MAK 200 ppm Peak; 760 mg/m ³ Peak skin notation
Greece:	50 ppm TWA; 192 mg/m ³ TWA 100 ppm STEL; 384 mg/m ³ STEL skin - potential for cutaneous absorption
Ireland:	50 ppm TWA; 192 mg/m ³ TWA 100 ppm STEL; 384 mg/m ³ STEL Potential for cutaneous absorption
Italy:	192 ppm TWA; 50 mg/m ³ TWA skin - potential for cutaneous absorption
Netherlands:	150 mg/m ³ TWA 384 mg/m ³ STEL
Portugal:	50 ppm TWA skin - potential for cutaneous exposure
Spain:	50 ppm VLA-ED (indicative limit value; manufacturing, commercialization, and use restrictions under REACH); 192 mg/m ³ VLA-ED (indicative limit value; manufacturing, commercialization, and use restrictions under REACH) 100 ppm VLA-EC; 384 mg/m ³ VLA-EC skin - potential for cutaneous exposure
Sweden:	50 ppm LLV; 200 mg/m ³ LLV 100 ppm STV; 400 mg/m ³ STV Skin notation
United Kingdom:	50 ppm TWA; 191 mg/m ³ TWA 100 ppm STEL; 384 mg/m ³ STEL Potential for cutaneous absorption

Naphtha, petroleum, solvent-refined light (Primarily Hexane) (64741-84-0)

EU (IOELV):	20 ppm TWA; 72 mg/m ³ TWA (related to Hexane)
Austria:	20 ppm MAK; 72 mg/m ³ MAK (related to Hexane) 80 ppm STEL (4 X 15 min); 288 mg/m ³ STEL (4 X 15 min, related to Hexane)
Belgium:	20 ppm TWA; 72 mg/m ³ TWA (related to Hexane)
Denmark:	20 ppm TWA; 72 mg/m ³ TWA (related to Hexane)
Finland:	20 ppm TWA; 72 mg/m ³ TWA (related to Hexane) Potential for cutaneous absorption (related to Hexane)
France:	20 ppm VME (restrictive limit); 72 mg/m ³ VME (restrictive limit, related to Hexane)
Germany (TRGS):	50 ppm TWA (exposure factor 8); 180 mg/m ³ TWA (exposure factor 8, related to Hexane)
Germany (DFG):	50 ppm MAK; 180 mg/m ³ MAK (related to Hexane) 400 ppm Peak; 1440 mg/m ³ Peak (related to Hexane)
Greece:	20 ppm TWA; 72 mg/m ³ TWA (related to Hexane)
Ireland:	20 ppm TWA; 72 mg/m ³ TWA (related to Hexane)
Italy:	20 ppm TWA; 72 mg/m ³ TWA (related to Hexane)
Netherlands:	72 mg/m ³ TWA (related to Hexane) 144 mg/m ³ STEL (related to Hexane)

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Portugal: 50 ppm TWA (related to Hexane)
skin - potential for cutaneous exposure (related to Hexane)
Spain: 20 ppm VLA-ED (indicative limit value); 72 mg/m³ VLA-ED (indicative limit value, related to Hexane)
Sweden: 25 ppm LLV; 90 mg/m³ LLV (related to Hexane)
50 ppm STV; 180 mg/m³ STV (related to Hexane)
United Kingdom: 20 ppm TWA; 72 mg/m³ TWA (related to Hexane)
60 ppm STEL (calculated); 216 mg/m³ STEL (calculated, related to Hexane)

Acetone (67-64-1)

EU (IOELV): 500 ppm TWA; 1210 mg/m³ TWA
Austria: 500 ppm MAK; 1200 mg/m³ MAK
2000 ppm STEL (4 X 15 min); 4800 mg/m³ STEL (4 X 15 min)
Belgium: 500 ppm TWA; 1210 mg/m³ TWA
1000 ppm STEL; 2420 mg/m³ STEL
Denmark: 250 ppm TWA; 600 mg/m³ TWA
Finland: 500 ppm TWA; 1200 mg/m³ TWA
630 ppm STEL; 1500 mg/m³ STEL
France: 500 ppm VME (restrictive limit); 1210 mg/m³ VME (restrictive limit)
1000 ppm VLCT (restrictive limit); 2420 mg/m³ VLCT (restrictive limit)
Germany (TRGS): 500 ppm TWA (exposure factor 2); 1200 mg/m³ TWA (exposure factor 2)
Germany (DFG): 500 ppm MAK; 1200 mg/m³ MAK
1000 ppm Peak; 2400 mg/m³ Peak
Greece: 1780 mg/m³ TWA
3560 mg/m³ STEL
Ireland: 500 ppm TWA; 1210 mg/m³ TWA
Italy: 500 ppm TWA; 1210 mg/m³ TWA
Netherlands: 1210 mg/m³ TWA
2420 mg/m³ STEL
Portugal: 500 ppm TWA
750 ppm STEL
Spain: 500 ppm VLA-ED (indicative limit value); 1210 mg/m³ VLA-ED (indicative limit value)
Sweden: 250 ppm LLV; 600 mg/m³ LLV
500 ppm STV; 1200 mg/m³ STV
United Kingdom: 500 ppm TWA; 1210 mg/m³ TWA
1500 ppm STEL; 3620 mg/m³ STEL

Magnesium oxide fume (1309-48-4)

Austria: 5 mg/m³ MAK (respirable fraction, smoke); 10 mg/m³ MAK (inhalable fraction)
20 mg/m³ STEL (respirable fraction, smoke, 4 X 15 min); 20 mg/m³ STEL (inhalable fraction, 2 X 60 min); 10 mg/m³ STEL (respirable fraction, 2 X 60 min)
Belgium: 10 mg/m³ TWA (fume)
Denmark: 6 mg/m³ TWA (as Mg)
France: 10 mg/m³ VME (fume)
Germany (DFG): 1.5 mg/m³ MAK (respirable fraction); 4 mg/m³ MAK (inhalable fraction)
Greece: 10 mg/m³ TWA (inhalable fraction); 5 mg/m³ TWA (respirable fraction)
Ireland: 4 mg/m³ TWA (respirable dust); 5 mg/m³ TWA (fume); 10 mg/m³ TWA (total inhalable dust)
10 mg/m³ STEL (fume)
Portugal: 10 mg/m³ TWA (inhalable fraction)
Spain: 10 mg/m³ VLA-ED (dust and fume)
United Kingdom: 10 mg/m³ TWA (as Mg, inhalable dust); 4 mg/m³ TWA (as Mg, fume and respirable dust)
30 mg/m³ STEL (calculated, as Mg, inhalable dust); 12 mg/m³ STEL (calculated, asMg, fume and respirable dust)

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Xylenes (o-, m-, p- isomers) (1330-20-7)

EU (IOELV):	50 ppm TWA (pure); 221 mg/m ³ TWA (pure) 100 ppm STEL (pure); 442 mg/m ³ STEL (pure) Possibility of significant uptake through the skin
Austria:	50 ppm MAK; 221 mg/m ³ MAK (all isomers) 100 ppm STEL (4 X 15 min); 442 mg/m ³ STEL (all isomers, 4 X 15 min) skin notation
Belgium:	50 ppm TWA; 221 mg/m ³ TWA 100 ppm STEL; 442 mg/m ³ STEL Skin
Denmark:	25 ppm TWA; 109 mg/m ³ TWA Potential for cutaneous absorption
Finland:	50 ppm TWA; 220 mg/m ³ TWA 100 ppm STEL; 440 mg/m ³ STEL Potential for cutaneous absorption
France:	50 ppm VME (restrictive limit); 221 mg/m ³ VME (restrictive limit) 100 ppm VLCT (restrictive limit); 442 mg/m ³ VLCT (restrictive limit) Risk of cutaneous absorption
Germany (TRGS):	100 ppm TWA (all isomers, exposure factor 2); 440 mg/m ³ TWA (all isomers, exposure factor 2) skin notation (all isomers)
Germany (DFG):	100 ppm MAK; 440 mg/m ³ MAK 200 ppm Peak (all isomers); 880 mg/m ³ Peak (all isomers) skin notation (all isomers)
Greece:	100 ppm TWA; 435 mg/m ³ TWA 150 ppm STEL; 650 mg/m ³ STEL skin - potential for cutaneous absorption
Ireland:	50 ppm TWA; 221 mg/m ³ TWA 100 ppm STEL; 442 mg/m ³ STEL Potential for cutaneous absorption
Italy:	50 ppm TWA (pure); 221 mg/m ³ TWA (pure) 100 ppm STEL (pure); 442 mg/m ³ STEL (pure) skin - potential for cutaneous absorption (pure)
Netherlands:	210 mg/m ³ TWA 442 mg/m ³ STEL skin notation
Portugal:	100 ppm TWA 150 ppm STEL
Spain:	50 ppm VLA-ED (indicative limit value); 221 mg/m ³ VLA-ED (indicative limit value) 100 ppm VLA-EC; 442 mg/m ³ VLA-EC skin - potential for cutaneous exposure
Sweden:	50 ppm LLV; 200 mg/m ³ LLV 100 ppm STV; 450 mg/m ³ STV Skin notation
United Kingdom:	50 ppm TWA; 220 mg/m ³ TWA 100 ppm STEL; 441 mg/m ³ STEL Potential for cutaneous absorption

Zinc oxide (1314-13-2)

Austria:	5 mg/m ³ MAK (respirable fraction, smoke)
Belgium:	10 mg/m ³ TWA (dust); 5 mg/m ³ TWA (fume) 10 mg/m ³ STEL (fume)
Denmark:	4 mg/m ³ TWA (as Zn, including vapour)
Finland:	2 mg/m ³ TWA (fume) 10 mg/m ³ STEL (fume)
France:	5 mg/m ³ VME (fume); 10 mg/m ³ VME (dust)
Germany (DFG):	1 mg/m ³ MAK (fume, respirable fraction) 1 mg/m ³ Peak (respirable fraction, fume)

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Greece:	5 mg/m ³ TWA (fume) 10 mg/m ³ STEL (fume)
Ireland:	5 mg/m ³ TWA (fume) 10 mg/m ³ STEL (fume)
Portugal:	2 mg/m ³ TWA (respirable fraction) 10 mg/m ³ STEL (respirable fraction)
Spain:	2 mg/m ³ VLA-ED (respirable fraction) 10 mg/m ³ VLA-EC
Sweden:	5 mg/m ³ LLV (total dust)

8.2 Exposure controls

Ventilation/Engineering Controls

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

Personal protective equipment

Eyes/Face Protection

- Protective goggles

Skin Protection

- Protective clothing
- Head/neck protection

Suitable materials: no data available

Respiratory Protection

- High vapour concentration: gas mask with filter A

Thermal Hazards

-

8.3 Environmental exposure controls

- No information available

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid, Amber to yellow	Physical Form: Liquid
Odour: Aromatic	Odour Threshold: Not available
pH: N.D.	Melting/Freezing Point: N.D.
Decomposition Temperature: Not available	Relative Density: 0.79/0.89
Initial Boiling Point: 55-142 °C	Viscosity: N.D.
Evaporation Rate: 1.9-9.5	Vapour Pressure: 9.5-185 mmHg (at 20 °C)
Vapour Density (air = 1): >3.0	Density: Not available
Oxidizing Properties: Not available	Bulk Density: Not available
Water Solubility: Insoluble	Coeff. Water/Oil Dist: Not available
Partition Coefficient: N.D.	Flash Point: -18 °C
Explosive Properties: Not available	Upper Explosive Limit: 1.1 vol %
Autoignition Temperature: N.D.	Lower Explosive Limit: 7.5 vol %

9.2 Other information

10. Stability and Reactivity

10.1 Reactivity

- Stable under normal conditions

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- 10.2 **Chemical stability**
- Stable under normal conditions
- 10.3 **Possibility of hazardous reactions**
-
- 10.4 **Conditions to avoid**
- Keep away from: heat sources, ignition sources, oxidizing agents, acids, bases
- 10.5 **Incompatible materials**
-
- 10.6 **Hazardous decomposition products**
- On combustion CO and CO₂ are formed

11. Toxicological Information

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Acute Toxicity - Toluene (108-88-3)

Dermal LD50 rat	12124	mg/kg
Dermal LD50 rabbit	8390	mg/kg
Inhalation LC50 rat	>26700	ppm/1 h

Acute Toxicity - Naphtha, petroleum, solvent-refined light (Primarily Hexane) (64741-84-0)

Oral LD50 rabbit	5500	mg/kg
Oral LD50 rat	>7000	mg/kg
Dermal LD50 rabbit	>2000	mg/kg
Inhalation LC50 rat	>5.04	mg/l/4 h
Inhalation LC50 rat	73680	ppm/4 h

Acute Toxicity - Acetone (67-64-1)

Oral LD50 rat	5800	mg/kg
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Chronic Toxicity

EC carc. cat. : not listed
EC muta. cat. : not listed
EC repr. cat. : 3 (n-hexane) (toluene)
Carcinogenicity (TLV) : A4 (toluene)
Carcinogenicity (MAC) : not listed
Carcinogenicity (VME) : not listed
Carcinogenicity (GWBB) : not listed
Carcinogenicity (MAK) : not listed
Mutagenicity (MAK) : not listed
Teratogenicity (MAK) : C (n-hexane) (toluene)
IARC classification : 3 (toluene)

After Inhalation

Exposure to high concentrations:

- Headache
- Nausea
- Irritation of the respiratory tract
- Irritation of the nasal mucous membranes
- Feeling of weakness
- Dizziness
- CNS depression

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- Narcosis
- Mental confusion
- Drunkenness
- Coordination disorders
- Disturbed motor response
- Disturbances of consciousness

After Ingestion

- Risk of aspiration pneumonia
- Nausea
- Abdominal pain
- CNS depression
- Symptoms similar to those listed under inhalation

Skin Corrosion/Irritation

- Tingling/irritation of the skin

Serious Eye Damage/Irritation

- Irritation of the eye tissue

Respiratory or Skin Sensitisation:-

Germ Cell Mutagenicity:-

Carcinogenicity: -

Component Carcinogenicity: -

Component Name:-

ACGIH:-

IARC:-

Reproductive Toxicity:-

Specific Target Organ Toxicity - Single Exposure:-

Specific Target Organ Toxicity - Repeated Exposure:-

Aspiration Hazard:-

Medical Conditions Aggravated by Exposure:-

Other Information

Chronic effects::

- Possible risk of impaired fertility
- Possibly hazardous to the fetus
- Prolonged exposure: danger of damage to health through inhalation
- Causes damage to the central nervous system
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)

On Continuous/Repeated Exposure/Contact:

- Dry skin
- Skin rash/inflammation
- Impairment of the nervous system
- Tremor
- Impaired memory
- Impaired concentration
- Brain affection
- Disturbances of heart rate
- Change in the haemogramme/blood composition
- Movement disturbances
- Myasthenia
- Cramps/uncontrolled muscular contractions
- Paralysis

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12. Ecological Information

12.1 Toxicity:

n-hexane:

- LC 50(96 h): 113 mg/l (Tilapia Mosambica - fish)
- EC50 (48 h): 2.1 mg/l (Daphnia Magna - invertebrate)
- EC50(h): 114 mg/l (Chlorophyta - algae)

toluene

- LC 50(96 h): 24 mg/l (Salmo Gairdneri/Oncorhynchus Mykiss - fish)
- EC50 (48 h): 11.5/19.6 mg/l (Daphnia Magna - invertebrate)
- EC50(72 h): 12.5 mg/l (Selenastrum Capricornutum - - algae)

12.2 Persistence and degradability

- biodegradation BOD5 : N.D. % ThOD
- water : - No data available
- soil : T ½: N.D. days

12.3 Bioaccumulative potential

- log Pow : N.D.
- BCF : N.D.

12.4 Mobility in soil

- Volatile organic compounds (VOC): 55/95 %
- Insoluble in water
- For other physicochemical properties see heading 9

12.5 Results of PBT and vPvB assessment

-

12.6 Other adverse effects

- **WGK : 2** (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (1999/45/EC)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal Considerations

13.1 Waste treatment methods

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09* (waste adhesives and sealants containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

13.2 Disposal methods

- Incinerate under surveillance
- Do not discharge into drains or the environment

13.3 Packaging/Container

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

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14. Transport Information

- 14.1 Classification of the substance in compliance with UN Recommendations
UN number : 1133
CLASS : 3
SUB RISKS : -
PACKING : II
PROPER SHIPPING NAME : UN 1133, Adhesives, Special provision 640D
- 14.2 ADR (transport by road)
CLASS : 3
PACKING : II
CLASSIFICATION CODE : F1
DANGER LABEL TANKS : 3
DANGER LABEL PACKAGES : 3
- 14.3 RID (transport by rail)
CLASS : 3
PACKING : II
CLASSIFICATION CODE : F1
DANGER LABEL TANKS : 3
DANGER LABEL PACKAGES : 3
- 14.4 ADNR (transport by inland waterways)
CLASS : 3
PACKING : II
CLASSIFICATION CODE : F1
DANGER LABEL TANKS : 3
DANGER LABEL PACKAGES : 3
- 14.5 IMDG (maritime transport)
CLASS : 3
SUB RISKS : -
PACKING : II
MFAG : -
EMS : F-E, S-D
MARINE POLLUTANT : -
- 14.6 ICAO (air transport)
CLASS : 3
SUB RISKS : -
PACKING : II
PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 305/Y305
PACKING INSTRUCTIONS CARGO AIRCRAFT : 307
- 14.7 Special precautions in connection with transport
None
- 14.8 Limited quantities (LQ) :
When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, only the following prescriptions shall be complied with: each package shall display a diamond-shaped figure with the following inscription: - 'UN 1133' or, in the case of different goods with different identification numbers within a single package: - the letters 'LQ'

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15. Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Classification according to directives 67/548/EEC and 1999/45/EC
REACH Candidate List of Substances Subject to Authorisation (Article 59(1)) - Reg. (EU) No. 1907/2006
No components of this material are listed
EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorisation
No components of this material are listed
Germany: WGK : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- 15.2 Chemical Safety Assessment Information**

16. Other Information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA
OES : Occupational Exposure Standards - United Kingdom
MEL : Maximum Exposure Limits - United Kingdom
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
TRK : Technische Richtkonzentrationen - Germany
MAC : Maximale aanvaarde concentratie - The Netherlands
VME : Valeurs limites de Moyenne d'Exposition - France
VLE : Valeurs limites d'Exposition à court terme - France
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium
GWK : Grenswaarde kortstondige blootstelling - Belgium
EC : Indicative occupational exposure limit values - directive 2000/39/EC

I : Inhalable fraction = **T** : Total dust = **E** : Einatembarer Aerosolanteil
R : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit
a : aerosol **r** : rook/Rauch (fume)
d : damp (vapour) **st** : stof/Staub (dust)
du : dust **ve** : vezel (fibre)
fa : Faser (fibre) **va** : vapour
fi : fibre **om** : oil mist
fu : fume **on** : olienevel/Ölnebel (oil mist)
p : poussière (dust) **part** : particles

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands

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Full text of any R-phrases referred to under heading 2:

- R10: Flammable
- R11: Highly flammable.
- R20/22: Harmful by inhalation and if swallowed.
- R20/21: Harmful by inhalation and in contact with skin.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R36: Irritating to eyes.
- R38: Irritating to skin.
- R45: May cause cancer.
- R46: May cause heritable genetic damage.
- R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R63: Possible risk of harm to the unborn child.
- R65: Harmful: may cause lung damage if swallowed.
- R66: Repeated exposure may cause skin dryness or cracking.
- R67: Vapours may cause drowsiness and dizziness.