

Chamäleon GmbH Rudolf-Diesel-Straße, 8a 69115 Heidelberg-Germany Tel.: +49-(0)-6221 520440 Fax: +49-(0)-6221 520449

E-mail: info@chamaeleon/produktion.de http://www.chamaeleon/produktion.de

SAFETY DATA SHEET according to 1907/2006/EC, Article 31

1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE **COMPANY/UNDERTAKING**

Product details

Trade name: Anti-Gravel Premium

Article number: 37215, 37225, 37235, 37315, 37325, 37335 **Intended use:** Car refinishing Product/ Hardening agent/ Stonechip

Manufacturer/Supplier: Chamäleon GmbH

Rudolf-Diesel-Straße, 8a, 69155 Heidelberg -- Germany

Further information obtainable from: Product Safety Department

Information in case of emergency: + 49 70024112112 (CH)

2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Flammable liquids, Category 2: H225: Highly flammable liquid and vapour.

Skin irritation, Category 2: H315: Causes skin irritation.

Reproductive toxicity, Category 2: H361d: Suspected of damaging the unborn child.

Effects on or via lactation: H362: May cause harm to breast-fed children.

Specific target organ toxicity - single exposure, Category 3, Central nervous system:

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure, Category 2: H373: May cause damage to organs through prolonged or repeated exposure.

Chronic aquatic toxicity, Category 3: H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable.

Harmful R48/20: Harmful: danger of serious damage to

health by prolonged exposure through inhalation.

Toxic to Reproduction Category 3 R63: Possible risk of harm to the unborn child.

R38: Irritating to skin.

R67: Vapours may cause drowsiness and dizziness.

R64: May cause harm to breastfed babies.

Dangerous f or the environment: R52/53: Harmful to aquatic organisms, may

cause long-term adverse effects in the aquatic

environment.

Irritant



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Label elements

Labelling (REGULATION (EC) No 1272/ 2008)

The product is classified and labelled according to the CLP regulation.

Hazard pictograms







Signal word: Danger **Hazard statements**

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H362 May cause harm to breast fed children
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements: Prevention:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/ protect iv e clothing/eye protection/ face protection.
- P260 Do not breathe vapours.
- P260 Do not breathe spray.

Response:

- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

toluene

Other hazards

This substance/ mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3- COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Paint Hazardous components



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Chemical Name	CAS-No.	Classification	Classification	Concentratio
	EC-No.	(67/548/EEC)	(REGULATION	n
	Registration		(EC)No 1272/2008)	(%)
	number			
toluene	108-88-3	F; R11	Flam.Liq.2; H225	>=20 - < 30
	203-625- 9	Repr. Cat. 3; R63	Skin Irrit.2; H315	
	01-2119471310-51	Xn; R48/ 20-R65	Repr.2; H361d	
		2119471310-51	STOT SE3; H336	
		R67	STOT RE2; H373	
			Asp. Tox.1; H304	
n- butyl acetate	123-86-4	R10	Flam. Li q. 3; H226	>= 1 - < 10
	204-658- 1	R66	STOT SE3; H336	
	01-2119485493-29	R67		
chlorinated	85535- 85-9	R64	Lact. H362	>= 1 - < 2. 5
paraffins,	287-477- 0	R66	Aquatic Acute1;	
C14-17	01-2119519269-33	N; R50- R53	H400	
			Aquati c Chroni c1; H410	

For explanation of abbreviations see section 16.

<u>4– FIRST - AID MEASURE</u>

Description of first aid measures

General notes:

Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

After inhalation:

Move to fresh air.

Consult a physician after significant exposure.

After skin contact:

Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

If symptoms persist, call a physician.

After eye contact:

Flush eyes with water as a precaution.

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

After swallowing:

Clean mouth with water and drink afterwards plenty of water.



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Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Inhalation may provoke the following symptoms:

> Headache **Dizziness** Fatigue Weakness

Skin contact may provoke the following symptoms:

Redness

Ingestion may provoke the following symptoms:

Abdominal pain

Nausea Vomiting Diarrhoea

Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

5- FIRE - FIGHTING MEASURE

Extinguishing media

Suitable extinguishing media:

Alcohol- resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing: High volume water jet media Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:

Do not use a solid water stream as it may scatter and spread fire.

Hazardous combustion products:

No hazardous combustion products are known

Advice for firefighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Further information:

Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with

local regulations.

For safety reasons in case of fire, cans should be stored separately in closed containments.



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6- ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures

Personal precautions:

Use personal protective equipment.

Ensure adequate ventilation.

Remove all sources of ignition.

Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Environmental precautions:

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and material for containment and cleaning up:

Methods for cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).

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

Precautions for safe handling:

Advice on safe handling:

Avoid exceeding of the given occupational exposure limits (see section 8).

Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Take precautionary measures against static discharges.

Container may be opened only under exhaust ventilation hood.

Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:

Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

No smoking.



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Store in cool place.

Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Storage period: 12 Months

Other data: No decomposition if stored and applied as directed.

Specific end use(s)

For the use of this product do not exist particular recommendations apart from that already

indicated.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Limestone	1317-65-3	TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	fractions of a in accordance sampling and COSHH definitions are contained and contain companies. The sampling are sponse that distinguishes and 'respirate material that available for to the fraction definitions a contain companies.	oses of these limits, respinarion on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits, depend on the state after entry into the tit elicits after entry into the state after entry into the s	be collected when sar ibed in MDHS14/3 C respirable and inhalar ardous to health inclu- equal to or greater the m-3 8-hour TWA of a COSHH if people ar signed specific WEL te limit., Most indust behaviour, deposition human respiratory sy- nature and size of the mit-setting purposes to eximate to the fraction th during breathing are tory tract. Respirable as exchange region of are given in MDHS14 was assigned WEL, all specific short-term ex-	inpling is undertaken beeneral methods for ble dust, The ides dust of any kind an 10 mg.m-3 8-respirable dust. This is exposed above and ex-posure to rial dusts contain on and fate of any stem and the body exparticle. HSE ermed 'inhalable' in of airborne in distherefore dust approximates of the lung. Fuller 1/3., Where dusts the relevant limits posure limit is
Limestone	1317-65-3	TWA (Respirable dust)	4 mg/m3	GB EH40



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Further information	fractions of air in accordance sampling and COSHH defin when present hour TWA of means that an these levels. Sthese must coparticles of a particular part response that distinguishes and 'respirabl material that available for othe fraction Fuller definition dusts contain a limits should be amplified to the fraction of	For the purposes of these limits, respirable dust and inhalable dust are those ractions of airborne dust which will be collected when sampling is undertaker in accordance with the methods described in MDHS14/3 General methods for ampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-our TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This neans that any dust will be subject to COSHH if people are exposed above nese levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain articles of a wide range of sizes. The behaviour, deposition and fate of any articular particle after entry into the human respiratory system and the body esponse that it elicits, depend on the nature and size of the particle. HSE istinguishes two size fractions for limit-setting purposes termed 'inhalable and 'respirable'., Inhalable dust approximates to the fraction of airborne to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where susts contain components that have their own assigned WEL, all the relevant sential should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used		
toluene	108-88-3	TWA	50 ppm 192mg/m3	2006/15/EC
Further information	Identifies the 1	possibility of signi	ficant uptake through the	skin, Indicative
toluene	108-88-3	STEL	100 ppm 384 mg/m3	2006/15/EC
Further information	Identifies the 1	possibility of signi	ficant uptake through the	skin, Indicative
toluene	108-88-3	TWA	50 ppm 191 mg/m3	GB EH40
Further	Can be absort	bed through skin.	The assigned substances	are those for which
information	there are concerns that dermal absorption will lead to systemic toxicity.			
toluene	108-88-3	STEL	100 ppm 384 mg/m3	GB EH40
Further			The assigned substances	
information			psorption will lead to syste	
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
n-butyl acetate	123-86-4	STEL	200 ppm 966 mg/m3	GB EH40
titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40



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titanium dioxide 13463-67-7

TWA

(Respirable dust)

4 mg/m3

GB EH40

Further information

For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, TheCOSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and ex-posure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of air-borne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung.

Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used



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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

toluene:

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 147 mg/m3 n-butyl acetate: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 480 mg/m3

alkanes, C14-17, chloro:

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 6.7 mg/m3 **Exposure controls**

Personal protective equipment

Eve protection:

Eye wash bottle with pure water Tightly fitting safety goggles

Hand protection

Remarks:

Solvent-resistant gloves The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.

Skin and body protection: impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: In the case of vapour formation use a respirator with an approved

filter.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Liquid
Colour:	Grey, Clear
Odour:	Characteristic
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Not applicable.
Boiling point/Boiling range:	110.6 °C (7.6 hPa)



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Flash point:	5 °C	
•	Method: ISO 1523, closed cup	
	Setaflash	
Explosion limits:		
Lower:	1.2 %(V)(25 °C)	
Upper:	7.1 %(V)(25 °C)	
Vapour pressure:	22.4 hPa (20 °C)	
_	123 hPa (50 ° C)	
Density:	1.46 g/cm3 (20 °C)	
	Method: ISO 2811-1	
Solubility (ies)		
Water solubility	Immiscible	
Auto-ignition temperature	520 °C	
Viscosity:		
Dynamic:	270,000 mPa.s (20°C)	
	Method: ISO 2555	
Kinematic:	> 20 mm2/s (40 °C)	

10-STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions.

Chemical stability

No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Hazardous reactions:

No decomposition if used as directed.

Vapours may form explosive mixture with air.

Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

Incompatible materials

Materials to avoid: Oxidizing agents

Strong acids and strong bases

Hazardous decomposition products

Hazardous decomposition products:

Carbon monoxide Carbon dioxide (CO2) Halogenated compounds



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11- TOXILOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Components:

toluene:

Acute inhalation toxicity: LC50 (rat): 28.1 mg/l

Exposure time: 4 h Method: OECD Test Guideline 403

n-butyl acetate: Acute oral toxicity:

LD50 Oral (rat): 10,768 mg/kg Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 (rat): 23.4 mg/l

Exposure time: 4 h Method: OECD Test Guideline 403

Acute dermal toxicity: LD50 (rabbit): 17,600 mg/kg

Method: OECD Test Guideline 402 chlorinated paraffins, C14-17:

Acute oral toxicity:

LD50 Oral (rat): 26,100 mg/kg Method: OECD Test Guideline 401

Acute inhalation toxicity:

LC50 (rat): > 20 mg/l

Exposure time: 4 h Method: OECD Test Guideline 403

Acute dermal toxicity: LD50 (rabbit): 13,500 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

Product:

Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- Assessment: Contains no ingredient listed as a mutagen

Carcinogenicity

Product:

Carcinogenicity - Assessment: Contains no ingredient listed as a carcinogen

Reproductive toxicity

Product:

Reproductive toxicity - Assessment: Suspected of damaging the unborn child.

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STOT - single exposure

Product:

Target Organs: Central nervous system Assessment:

May cause drowsiness or dizziness.

STOT - repeated exposure

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin

<u>12 – ECOLOGICAL INFORMATION</u>

Toxicity

Components:

n-butyl acetate:

Toxicity to fish:

LC50 (Fish): 18 mg/l

Exposure time: 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia): 32 mg/l Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae: EC50 (Algae): 675 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201 chlorinated paraffins, C14-17:

Toxicity to fish:

LC50 (Fish): 5,000 mg/l Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia): 0.0059 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae: EC50 (Algae): 3.2 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201 Chamäleon GmbH- Safety Data Sheet



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Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available Results of PBT and vPvB assessment

Product:

Assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<u>13– DISPOSAL CONSIDERATION</u>

Waste treatment methods

Product:

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging:

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

14- TRANSPORT INFORMATION

UN-Number

ADR UN 1263 RID : UN 1263 **IMDG** : UN 1263 IATA : UN 1263

UN proper shipping name

: PAINT RELATED MATERIAL **ADR** : PAINT RELATED MATERIAL RID : PAINT RELATED MATERIAL **IMDG**

IAT A : Paint related material



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Transport hazard class(es)

ADR 3 **RID** 3 3 **IMDG** 3 IAT A

Packing group

ADR

Packing group IIIClassification Code F1 Hazard Identification Number 33 Labels 3 Tunnel restriction code : (D/E)

RID

Packing group Ш

Classification Code

F1

Hazard Identification Number 33 Labels 3

IMDG

Packing group IIILabels 3

EmS Code : F-E, S-E

IATA

Packing instruction (cargo aircraft) 366 Packing instruction (LQ) Y344 Packing group III

Labels Flammable Liquids

(Special provision 640H) FP<23°C, viscous according 2.2.3.1.4. <450 L (ADR) or 2.3.2.3. <30 L (IMDG) or 3.3.3.1.1. <30 L (IATA), VP<110 kPa50°C

Environmental hazards

ADR

Environmentally hazardous : si

RID

Environmentally hazardous : si

IMDG

Marine pollutant : si

Special precautions for user : not applicable

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

Not applicable for product as supplied.

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15 – REGULATORY INFORMATION

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

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Quantity 1 Quantity 2 5,000 t50,000 t 7b Highly flammable

Volatile organic compounds : 410 g/l

Directive 2004/42/EC : Special finishes (840 g/l)

Chemical Safety Assessment: not applicable

<u> 16-OTHER INFORMATION</u>

Full text of R-Phrases

R10	Flammable.
R11	Highly flammable.
R38	Irritating to skin.

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

R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R64	May cause harm to breastfed babies.

R65 Harmful: may cause lung damage if swallowed. R66

Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Full text of H-Statements

I ull text o	1 11 Statements
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.