according to Regulation (EC) No 1907/2006

FAM

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

1.1. Product identifier

FAM

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

Use of the substance/mixture

Industrial use resulting in manufacture of another substance (use of intermediates)

Uses advised against

any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Thierry GmbH
Street: Motorstrasse 30
Place: D-70499 Stuttgart

Telephone: +49 (0)711 8399 7470 Telefax: +49 (0)711 8399 7480

e-mail: info@thierry-gmbh.de

Contact person: Veronika Krieger Telephone: 0711/839974-0

Internet: www.thierry-gmbh.de

Responsible Department: Dr. Gans-Eichler e-mail: info@tge-consult.de

Chemieberatung GmbH Tel.: +49 (0)251/924520-60 Raesfeldstr. 22 www.tge-consult.de

D-48149 Münster

1.4. Emergency telephone Emergency medical information: Poison Information Center Mainz - Tel: +49

number: (6131) 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2 Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - repeated exposure: STOT RE 2

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness. Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

toluene

octane; 2,2,4-trimethylpentane 2,4,4-trimethylpent-2-ene

according to Regulation (EC) No 1907/2006

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Signal word: Danger

Pictograms:









Hazard statements

H225 Highly 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.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe vapour/aerosol.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

according to Regulation (EC) No 1907/2006

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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Reg			
108-88-3	toluene	50 - < 55 %		
	203-625-9	601-021-00-3		
	Flam. Liq. 2, Repr. 2, Skin Irrit. H373 H304	2, STOT SE 3, STOT RE 2,	Asp. Tox. 1; H225 H361d H315 H336	
540-84-1	octane; 2,2,4-trimethylpentane			30 - < 35 %
	208-759-1	601-009-00-8		
	Flam. Liq. 2, Asp. Tox. 1, Skin H304 H315 H336 H400 H410			
107-39-1	2,4,4-trimethylpent-1-ene	15 - < 20 %		
	203-486-4	601-031-00-8		
	Flam. Liq. 2, Aquatic Chronic 2			
107-40-4	2,4,4-trimethylpent-2-ene	5 - < 10 %		
	203-488-5			
	Flam. Liq. 2, Skin Irrit. 2, Eye I			
64-17-5	ethanol, ethyl alcohol	5 - < 10 %		
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225			

Full text of H and EUH statements: see section 16.

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Take off immediately all contaminated clothing.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

No information available.

according to Regulation (EC) No 1907/2006

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam. dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Provide adequate ventilation. Remove all sources of ignition.

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation.

Wear suitable protective clothing. (See section 8.)

Avoid contact with skin, eyes and clothes.

Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Heating causes rise in pressure with risk of bursting.

Further information on handling

Flammable vapours can accumulate in head space of closed systems.

General protection and hygiene measures: refer to chapter 8

according to Regulation (EC) No 1907/2006

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Ensure adequate ventilation of the storage area.

Advice on storage compatibility

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. Cold moisture.

7.3. Specific end use(s)

refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

according to Regulation (EC) No 1907/2006

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
108-88-3	toluene			
Worker DNEL,	acute	inhalation	local	384 mg/m³
Consumer DNI	EL, acute	inhalation	systemic	226 mg/m³
Worker DNEL,	long-term	inhalation	local	192 mg/m³
Worker DNEL,	long-term	inhalation	systemic	192 mg/m³
Worker DNEL,	long-term	dermal	systemic	384 mg/kg bw/day
Consumer DNI	EL, acute	inhalation	local	226 mg/m³
Consumer DNEL, long-term		inhalation	systemic	56,5 mg/m³
Consumer DNI	EL, long-term	dermal	systemic	226 mg/kg bw/day
Consumer DNI	EL, long-term	oral	systemic	8,13 mg/kg bw/day
64-17-5	ethanol, ethyl alcohol			
Worker DNEL,	acute	inhalation	local	1900 mg/m³
Worker DNEL,	long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	950 mg/m³
Consumer DNEL, acute		inhalation	local	950 mg/m³
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
Consumer DNI	EL, long-term	inhalation	systemic	114 mg/m³
Consumer DNI	EL, long-term	oral	systemic	87 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmenta	al compartment	Value
108-88-3	toluene	
Freshwater		0,68 mg/l
Freshwater s	ediment	16,39 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	13,61 mg/l
Soil		2,89 mg/kg
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Freshwater (i	ntermittent releases)	2,75 mg/l
Marine water		0,79 mg/l
Marine water	(intermittent releases)	2,75 mg/l
Freshwater sediment		3,6 mg/kg
Secondary poisoning		720 mg/kg
Micro-organisms in sewage treatment plants (STP) 580		
Soil		0,63 mg/kg

8.2. Exposure controls

according to Regulation (EC) No 1907/2006

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Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Remove contaminated clothing immediatley and dispose off safely.

Eye/face protection

Eye glasses with side protection

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material:

(penetration time (maximum wearing period): >= 8 Stunden):

FKM (fluororubber).

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin protection

Wear fire/flame resistant/retardant clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

Respiratory protection necessary at:

exceeding exposure limit values

insufficient ventilation

Suitable respiratory protective equipment:

gas filtering equipment (EN 141). Type: A

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Pour point:

Flash point:

not determined not determined

rot determined

rot determined

rot determined

according to Regulation (EC) No 1907/2006

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Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits: not determined Upper explosion limits: not determined Ignition temperature: not determined

Oxidizing properties

none

Vapour pressure:

Density:

not determined

Water solubility:

not determined

Viscosity / dynamic:

not determined

Viscosity / kinematic:

not determined

Solvent content:

not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. Cold. moisture.

10.5. Incompatible materials

Materials to avoid: Strong acid. strong alkalis. Oxidizing agents, strong. Peroxides. Reducing agents, strong.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

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

according to Regulation (EC) No 1907/2006

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
108-88-3	toluene				
	oral	LD50	>5000 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>5000 mg/kg	Rabbit	ECHA Dossier
	inhalative (4 h) vapour	LC50	28,1 mg/l	Rat	ECHA Dossier
540-84-1	octane; 2,2,4-trimethylpentane				
	oral	LD50	>5000 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rabbit	ECHA Dossier
	inhalative (4 h) aerosol	LC50	>33,52 mg/l	Rat	ECHA Dossier
64-17-5	ethanol, ethyl alcohol				
	oral	LD50	>5000 mg/kg	Rat.	ECHA Dossier
	inhalative (4 h) vapour	LC50	51-124,7 mg/l	Rat.	ECHA Dossier

Irritation and corrosivity

Causes skin irritation.

Sensitising effects

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

STOT-single exposure

May cause drowsiness or dizziness. (toluene), (octane; 2,2,4-trimethylpentane)

Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure. (toluene)

toluene (CAS-No.: 108-88-3): Subchronic oral toxicity Exposure time: 13 weeks

Species: Mouse.

Method: OECD Guideline 408 Result: NOAEL = 625 mg/kg bw/day literature infomation: ECHA Dossier

Ethanol. (CAS-No.: 64-17-5): Subchronic oral toxicity Exposure time: 90d

Species: Sprague-Dawley Rat. Method: OECD Guideline 408 Result: NOAEL = 1280 mg/kg literature infomation: ECHA Dossier

Carcinogenic/mutagenic/toxic effects for reproduction

according to Regulation (EC) No 1907/2006

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Suspected of damaging the unborn child. (toluene)

toluene (CAS-No.: 108-88-3):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity: Exposure time: 95d Species: Rat

Method: OECD Guideline 416 Result: NOAEC = 500 ppm

Developmental toxicity/teratogenicity:

Exposure time: 20d Species: Rat.

Method: EPA OTS 798.4350 (Inhalation Developmental Toxicity Screen)

Result: NOAEC = 750 ppm (maternal toxicity)
Result: NOAEC = 750 ppm (developmental toxicity)

literature infomation: ECHA Dossier

Ethanol. (CAS-No.: 64-17-5):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity:
Exposure time: 18 weeks
Species: CD-1 Mouse.
Method: OECD Guideline 416
Result: NOAEL = 20700 mg/kg/day
Developmental toxicity/teratogenicity:

Exposure time: 19d

Species: Sprague-Dawley Rat. Method: OECD Guideline 414

Result: NOAEL = 16000 ppm (maternal toxicity)
Result: NOAEL >= 20000 ppm (teratogenicity)

literature infomation: ECHA Dossier

octane; 2,2,4-trimethylpentane (CAS-No.: 540-84-1):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

literature infomation: ECHA Dossier

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

according to Regulation (EC) No 1907/2006

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
108-88-3	toluene					
	Acute fish toxicity	LC50	(5,5) mg/l	96 h	Oncorhynchus kisutch	ECHA Dossier
	Acute crustacea toxicity	EC50	(3,78) mg/l	48 h	Ceriodaphnia dubia	ECHA Dossier
	Acute bacteria toxicity	(134 mg	/I)	3 h	Chlorella vulgaris and Chlamydomonas angulosa	ECHA Dossier
64-17-5	ethanol, ethyl alcohol					
	Acute fish toxicity	LC50	14200 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier
	Acute crustacea toxicity	EC50	5012 mg/l	48 h	Ceriodaphnia dubia	ECHA Dossier
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	ECHA Dossier

12.2. Persistence and degradability

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation			•	
64-17-5	ethanol, ethyl alcohol				
	other guideline	84%	20	ECHA Dossier	
	Product is biodegradable.		_		

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73
64-17-5	ethanol, ethyl alcohol	-0,31

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances

Classified as hazardous waste.

Waste disposal number of used product

according to Regulation (EC) No 1907/2006

FAM

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160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused

products; organic wastes containing hazardous substances

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances

Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

(toluene; octane; 2,2,4-trimethylpentane)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640C

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

(toluene; octane; 2,2,4-trimethylpentane)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640C

Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

(toluene; 2,2,4-trimethylpentane)

14.3. Transport hazard class(es): 3

according to Regulation (EC) No 1907/2006

FAM

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14.4. Packing group:

Hazard label: 3



Marine pollutant: YES
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-E

Air transport (ICAO)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (toluene; 2,2,4-trimethylpentane)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

1 L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: octane; 2,2,4-trimethylpentane

14.6. Special precautions for user

See section 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not relevant.

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC): not determined 2004/42/EC (VOC): not determined

Information according to 2012/18/EU

(SEVESO III):

Additional information:

Additional information

E1 Hazardous to the Aquatic Environment

according to Regulation (EC) No 1907/2006

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This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No 3

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1.00; 25.11.2015, Initial release

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service
DNFL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Concerning the International Transport of Dangerous Goods by Rail)

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern TRGS Technische Regeln für Gefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.
H319 Causes serious eye irritation.

according to Regulation (EC) No 1907/2006

FAM						
Product code:	Page 15 of 15					
May cause respiratory irritation.						
May cause drowsiness or dizziness.						
Suspected of damaging the unborn child.						
· · · · · · · · · · · · · · · · · · ·						
Very toxic to aquatic life.						
Very toxic to aquatic life with long lasting effects.						
Toxic to aquatic life with long lasting effects.						
	Product code: May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.					

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)