according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 1 of 13

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

1.1. Product identifier

PT39 - Hardener

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

Use of the substance/mixture

Hardener for epoxy resins

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Hepf GmbH Street: Dorf 69

Place: A-6342 Niederndorf
Telephone: +43 5373 570033
e-mail: info@hepf.at
Contact person: Stefan Thaler

e-mail: Stefan.Thaler@hepf.at

Internet: www.hepf.at

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

Chemieberatung GmbH Tel.: +49(0)251/394868-69 Raesfeldstr. 22 www.tge-consult.de

D-48149 Münster

1.4. Emergency telephone Vergiftungsinformationszentrale (VIZ) Wien: +43 (0) 1 406 43 43

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1B

Reproductive toxicity: Repr. 2

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

Hazard Statements: Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility. Suspected of damaging the unborn child.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

2,4,6-tris(dimethylaminomethyl)phenol

4-nonylphenol, branched

2-ethylhexanoic acid

m-phenylenebis(methylamine)

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 2 of 13

Signal word: Danger

Pictograms:









Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

H317 May cause an allergic skin reaction.
H361fd Suspected of damaging fertility. Suspected of dam

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

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.

P405 Store locked up.

P501 Dispose of contents/container to local/regional/national/international regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Re	egulation (EC) No. 1272/2008	CLP]		
-	Curing Agent	50 - 80 %			
	-				
	Skin Irrit. 2, Eye Irrit. 2; H315	H319	•		
90-72-2	2,4,6-tris(dimethylaminometh	20 - 30 %			
	202-013-9	603-069-00-0			
	Acute Tox. 4, Skin Corr. 1C, E	Eye Dam. 1, Skin Sens. 1B; H	302 H314 H318 H317		
84852-15-3	4-nonylphenol, branched	< 10 %			
	284-325-5	601-053-00-8			
	Repr. 2, Acute Tox. 4, Skin Control (M-Factor = 10); H				
149-57-5	2-ethylhexanoic acid	< 5 %			
	205-743-6	607-230-00-6			
	Repr. 2; H361d ***				
1477-55-0	m-phenylenebis(methylamine)			< 5 %	

according to Regulation (EC) No 1907/2006

	PT39 - Hardener	
Revision date: 31.10.2018	Product code:	Page 3 of 13
216-032-5		
Acute Tox. 4, Acute Tox. 4, H302 H314 H318 H317 H4	, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 3; H 412	1332

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 contaminated clothing and wash it before reuse.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Call a physician immediately. Immediately begin artificial respiration if breathing has ceased. Provision of oxygen may help. Obtain medical advice for further treatment.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Foam. Carbon dioxide (CO2). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist

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) Nitrogen oxides (NOx). Sulfur oxides. Hydrogen sulfide (H2S)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

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

Co-ordinate fire-fighting measures to the fire surroundings.

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 4 of 13

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8).

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

Evacuate area.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

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 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Conditions to avoid: aerosol or mist formation

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Advices on general occupational hygiene: See section 8.

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/Store only in original container.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances. Infectious substances.

Further information on storage conditions

Recommended storage temperature: 21°C

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

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 5 of 13







Appropriate engineering controls

Provide adequate ventilation.

Protective and hygiene measures

When using do not eat, drink or smoke.

Eye/face protection

Wear eye/face protection. DIN EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

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

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.

Skin protection

Suitable protective clothing: Lab apron.

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

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- -exceeding exposure limit values
- -insufficient ventilation and aerosol or mist formation.

Suitable respiratory protective equipment: particulates filter device (DIN EN 143)., Type: P1-3

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, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: yellow
Odour: characteristic

pH-Value: No information available.

Changes in the physical state

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 6 of 13

Melting point:

Initial boiling point and boiling range:

Sublimation point:

No information available.

No data available

Flammability

Solid: No information available.

Gas: No information available.

Explosive properties

none

Lower explosion limits:

Upper explosion limits:

No information available.

No information available.

No information available.

Auto-ignition temperature

Solid: No information available.
Gas: No information available.
Decomposition temperature: No information available.

Oxidizing properties

none

Vapour pressure:No information available.Vapour pressure:No information available.Density:1,17 g/cm³Bulk density:No information available.Water solubility:slightly soluble

Solubility in other solvents

No information available.

Partition coefficient: No information available. No information available. Viscosity / dynamic: Viscosity / kinematic: No information available. No information available. Flow time: No information available. Vapour density: Evaporation rate: No information available. Solvent separation test: No information available. Solvent content: No information available.

9.2. Other information

Solid content: No information available.

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.

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 7 of 13

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. Avoid freezing.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. acid. Alkalis (alkalis). Amines.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx). Sulfur oxides. Hydrogen sulfide (H2S)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1380,4 mg/kg

CAS No	Chemical name	hemical name						
	Exposure route	Dose		Species	Source	Method		
-	Curing Agent							
	oral	LD50 mg/kg	7500	Rat	MSDS extern			
	dermal	LD50 mg/kg	>2000	Rat	MSDS extern			
90-72-2	2,4,6-tris(dimethylaminor	methyl)phenol	l					
	oral	LD50 mg/kg	2169	Rat	MSDS extern			
84852-15-3	4-nonylphenol, branched							
	oral	LD50 mg/kg	1412	Rat	MSDS extern			
149-57-5	2-ethylhexanoic acid							
	oral	LD50 mg/kg	3000	Rat				
	dermal	LD50 mg/kg	> 2000	Rabbit				
1477-55-0	m-phenylenebis(methylamine)							
	oral	LD50 mg/kg	930	Rat	MSDS extern			
	dermal	LD50 mg/kg	>3100	Rat	MSDS extern			
	inhalation vapour	ATE	11 mg/l					
	inhalation (4 h) aerosol	LC50	1,34 mg/l	Rat	MSDS extern			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (2,4,6-tris(dimethylaminomethyl)phenol; m-phenylenebis(methylamine))

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 8 of 13

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. Suspected of damaging the unborn child. (4-nonylphenol, branched)

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

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

2,4,6-tris(dimethylaminomethyl)phenol:

In vitro mutagenicity/genotoxicity: Method: OECD 471 (Ames test).; Result / evaluation: negative.;

Reproductive toxicity: Method: OECD 422. ; Species: Rat. ; Exposure duration: 54 d.; Result: NOAEL 15 mg/kg

bw/day.

4-nonylphenol, branched:

Developmental toxicity/teratogenicity: Method: OECD 414. Species: Rat. Exposure duration: 11d. Result /

evaluation: NOAEL = 75 mg/kg bw/day Literature information: ECHA Dossier

STOT-single exposure

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

STOT-repeated exposure

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

2,4,6-tris(dimethylaminomethyl)phenol:

Subchronic oral toxicity: Method: OECD 422.; Species: Rat.; Exposure duration: 54 d.; Result: NOAEL 15 mg/kg bw/day.

4-nonylphenol, branched:

Subacute oral toxicity: Method: OECD 407 Species: Rat. Exposure duration: 28 d. Result / evaluation: NOAEL

= 100 mg/kg bw/day Literature information: ECHA Dossier

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol						
	Acute fish toxicity	LC50 <240 mg/l	180 -	96 h	Oncorhynchus mykiss	MSDS extern	
84852-15-3	4-nonylphenol, branched						
	Acute fish toxicity	LC50 mg/l	0,128	96 h	Pimephales promelas	MSDS extern	
	Acute crustacea toxicity	EC50 mg/l	0,0844	48 h	Daphnia magna	MSDS extern	
149-57-5	2-ethylhexanoic acid						
	Acute fish toxicity	LC50 mg/l	> 250	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50	61 mg/l	72 h			
	Acute crustacea toxicity	EC50 mg/l	85,4	48 h	Daphnia magna		
1477-55-0	m-phenylenebis(methylamine)						
	Acute fish toxicity	LC50 mg/l	87,6	96 h	Oryzias latipes	MSDS extern	
	Acute crustacea toxicity	EC50 mg/l	15,2	48 h	Daphnia magna	MSDS extern	

according to Regulation (EC) No 1907/2006

PT39 - Hardener Revision date: 31.10.2018 Product code: Page 9 of 13

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	OECD 301D/ EEC 92/69/V, C.4-E 4% 28 ECHA Dossier				
	Not readily biodegradable (according to OECD criteria)				

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	>=0,219
149-57-5	2-ethylhexanoic acid	2,7

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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

Control report for waste code, waste marking according to Exity

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; hazardous waste

Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; 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; 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 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol)

14.3. Transport hazard class(es): 8

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 10 of 13

14.4. Packing group:
Hazard label: 8



Classification code:

Special Provisions:

Limited quantity:

Excepted quantity:

Transport category:

Hazard No:

Tunnel restriction code:

C9

Special Provisions:

274

E1

Transport category:

3

Hazard No:

80

Inland waterways transport (ADN)

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C9
Special Provisions: 274
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol)

 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 III

 Hazard label:
 8



Marine pollutant: YES
Special Provisions: 223, 274
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 11 of 13

Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

1 L

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

¥2

Danger releasing substance: 4-nonylphenol, branched

14.6. Special precautions for user

Safe handling: see section 7

Personal protection equipment: see section 8

14.7. Transport in bulk according to Annex II of Marpol 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

Restrictions on use (REACH, annex XVII):

Entry 3: 2-ethylhexanoic acid

2010/75/EU (VOC): No information available. 2004/42/EC (VOC): No information available.

Information according to 2012/18/EU E1 Hazardous to the Aquatic Environment

(SEVESO III):

Additional information

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

REACH 1907/2006 Appendix XVII, No (mixture): 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): 3 - highly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

SECTION 16: Other information

Changes

Rev. 1.0; Initial release: 31.10.2018

Abbreviations and acronyms

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

CAS Chemical Abstracts Service DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 12 of 13

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: Occupational Safety and Health Administration

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Rcglement 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 fuerGefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure			
Acute Tox. 4; H302	Calculation method			
Skin Corr. 1B; H314	Calculation method			
Eye Dam. 1; H318	Calculation method			
Skin Sens. 1B; H317	Calculation method			
Repr. 2; H361fd	Calculation method			
Aquatic Acute 1; H400	Calculation method			
Aquatic Chronic 1; H410	Calculation method			

Relevant H and EUH statements (number and full text)

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

according to Regulation (EC) No 1907/2006

PT39 - Hardener

Revision date: 31.10.2018 Product code: Page 13 of 13

Physical hazards: On basis of test data and / or calculated and / or estimated.

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.)