Safety Data Sheet

according to Regulation (EC) No 1907/2006

HP-E120WSI / HP-E120WSM HARDENER

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

1.1. Product identifier

HP-E120WSI / HP-E120WSM HARDENER

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

Use of the substance/mixture

Adhesives, sealants
professional use. Private households (= general public). Keep out of the reach of children.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	HP-Textiles GmbH	
Street:	Otto-Hahn-Str. 22	
Place:	D-48480 Schapen	
Telephone:	+49 (0) 5905 945 98 70	Telefax: +49 (0) 5905 945 98 74
e-mail (Contact person):	info@hp-textiles.com	
Responsible Department:	Christian Breddermann e-mail: c.breddermann@hp-textiles.com	

1.4. Emergency telephone number:

0049 (0) 151 5473 5568 (Mo.-Fr. 06:00 AM -18:00 PM)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Acute toxicity: Acute Tox. 4
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. 1A
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Harmful if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

3-aminomethyl-3,5,5-trimethylcyclohexylamine
Bicyclo[2.2.1]heptanbis(methylamin)

Signal word: Danger

Pictograms:

Hazard statements

Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Store locked up.
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			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			50 - 100 %
	220-666-8	612-067-00-9	01-2119514687-32	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H312 H314 H317 H412			
100-51-6	benzyl alcohol			0 - 0,5 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H302 H332 H319			
56602-77-8	Bicyclo[2.2.1]heptanbis(methylamin)			2,5 - 10 %
	260-280-7			
	Acute Tox. 4, Skin Corr. 1C, Aquatic Chronic 3. H302 H314 H412			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			0 - 0,5 %
	202-013-9	603-069-00-0		
	Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H302 H319 H315			
69-72-7	salicylic acid			0 - 0,5 %
	200-712-3			
	Acute Tox. 4, Eye Dam. 1; H302 H318			
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine			0 - 0,5 %
	247-063-2		01-2119560598-25	
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317			

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).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).

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. When in doubt or if symptoms are observed, get medical advice.

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

Sand. 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)

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.

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.

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.

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

No information available.

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. Only use containers specifically approved for the

substance/product.

Advice on storage compatibility

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: 20°C
Protect against: Light. UV-radiation/sunlight. heat. moisture.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
100-51-6	benzyl alcohol			
Consumer DNEL, long-term		oral	systemic	4 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	110 mg/m³
Worker DNEL, long-term		inhalation	systemic	22 mg/m³
Consumer DNEL, acute		oral	systemic	20 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	27 mg/m³
Consumer DNEL, long-term		inhalation	systemic	5,4 mg/m³
Worker DNEL, long-term		dermal	systemic	8 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	20 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	4 mg/kg bw/day

PNEC values

CAS No	Substance
Environmental compartment	Value
100-51-6	benzyl alcohol
Freshwater	1 mg/l
Freshwater (intermittent releases)	2,3 mg/l
Marine water	0,1 mg/l
Marine water (intermittent releases)	2,3 mg/l
Freshwater sediment	5,27 mg/kg
Marine sediment	0,527 mg/kg
Micro-organisms in sewage treatment plants (STP)	39 mg/l
Soil	0,456 mg/kg
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
Freshwater	0,102 mg/l
Freshwater (intermittent releases)	0,315 mg/l
Marine water	0,01 mg/l
Freshwater sediment	0,622 mg/kg
Marine sediment	0,062 mg/kg
Micro-organisms in sewage treatment plants (STP)	72 mg/l
Soil	10 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



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
NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm
Breakthrough time >= 8 h
PVC (Polyvinyl chloride).
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: Combination filtering device (EN 14387) type A-P2
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:	yellowish
Odour:	characteristic

		Test method
pH-Value:	No information available.	
Changes in the physical state		
Melting point:	No information available.	
Initial boiling point and boiling range:	>200 °C	
Sublimation point:	No information available.	
Softening point:	No information available.	
Pour point:	No information available.	
Flash point:	>100 °C	
Sustaining combustion:	No data available	
Flammability		
Solid:	No information available.	
Gas:	No information available.	
Explosive properties		
none		
Lower explosion limits:	No information available.	
Upper explosion limits:	No information available.	
Ignition temperature:	No information available.	
Auto-ignition temperature		
Solid:	No information available.	
Gas:	No information available.	
Decomposition temperature:	No information available.	
Oxidizing properties		
none		
Vapour pressure: (at 20 °C)	No information available.	

Vapour pressure: (at 50 °C)	No information available.
Density (at 23 °C):	ca. 1,0 g/cm³
Bulk density:	No information available.
Water solubility:	almost immiscible

Solubility in other solvents
No information available.

Partition coefficient:	No information available.
Viscosity / dynamic: (at 25 °C)	ca. 100 mPa·s
Viscosity / kinematic:	No information available.
Flow time:	No information available.
Vapour density:	No information available.
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.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials
Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products
No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution
No information available.

Acute toxicity
Harmful if swallowed or in contact with skin.

ATEmix calculated
ATE (oral) 953,1 mg/kg; ATE (dermal) 1491,5 mg/kg

CAS No	Chemical name				
	Exposure route	Dose		Species	Source
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	LD50	1030 mg/kg	Rat.	ECHA Dossier
	dermal	ATE	1100 mg/kg		
	inhalative (4 h) aerosol	LC50	>5,01 mg/l	Rat.	ECHA Dossier
100-51-6	benzyl alcohol				
	oral	LD50	1230 mg/kg	Rat	ECHA Dossier
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
56602-77-8	Bicyclo[2.2.1]heptanbis(methylamin)				
	oral	LD50	961 mg/kg	Rat.	MSDS extern.
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	LD50	[21699 mg/kg	Rat	ECHA Dossier
	dermal	LD50	[>971] mg/kg	Rabbit	ECHA Dossier
69-72-7	salicylic acid				
	oral	LD50	891 mg/kg	Rat (OECD 401)	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rat (OECD 402)	ECHA Dossier
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine				
	oral	LD50	910 mg/kg	Rat.	ECHA Dossier

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; Bicyclo[2.2.1]heptanbis(methylamin); 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine)

Carcinogenic/mutagenic/toxic effects for reproduction

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

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.

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
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine					
	Acute fish toxicity	LC50	110 mg/l	96 h	Leucisus idus	ECHA Dossier
	Acute algae toxicity	ErC50	>50 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50	23 mg/l	48 h	Daphnia Magna	ECHA Dossier
	Crustacea toxicity	NOEC	3 mg/l	21 d	Daphnia magna	ECHA Dossier
100-51-6	benzyl alcohol					
	Acute fish toxicity	LC50	460 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50	500 mg/l	72 h	Pseudokirchnella subcpitata	ECHA Dossier
	Acute crustacea toxicity	EC50	230 mg/l	48 h	Daphnia magna	ECHA Dossier
56602-77-8	Bicyclo[2.2.1]heptanbis(methylamin)					
	Acute algae toxicity	ErC50	25,1 mg/l	72 h	Pseudokirchnella subcpitata	MSDS ext.
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol					
	Acute algae toxicity	ErC50	(84) mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
69-72-7	salicylic acid					
	Acute algae toxicity	ErC50	100 mg/l	72 h	Scenedesmus subspicatus (OECD 201)	ECHA Dossier
	Acute crustacea toxicity	EC50	870 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier
	Crustacea toxicity	NOEC	10 mg/l	21 d	Daphnia magna	MSDS external.
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine					
	Acute fish toxicity	LC50	174 mg/l	96 h	Leuciscus idus (golden orfe)	ECHA Dossier
	Acute algae toxicity	ErC50	43,2 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50	31,5 mg/l	48 h	Daphnia magna	ECHA Dossier
	Fish toxicity	NOEC	>10,9 mg/l	30 d	Brachydanio rerio (zebra-fish)	ECHA Dossier

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	8%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			
56602-77-8	Bicyclo[2.2.1]heptanbis(methylamin)			
	No further information			
	Product is not easily biodegradable.			
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)			
69-72-7	salicylic acid			
	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F	>60%	14	ECHA Dossier
	Product is biodegradable.			
25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine			
	EU Method C.4-A	7%	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
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	0,99
100-51-6	benzyl alcohol	1,05
56602-77-8	Bicyclo[2.2.1]heptanbis(methylamin)	N/A
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	>=0,219
69-72-7	salicylic acid	2,25

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.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other 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 2735
14.2. UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8

Classification code:	C7
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number:	UN 2735
14.2. UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8

Classification code:	C7
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number:	UN 2735

14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8

Marine pollutant: NO
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 2735

14.2. UN proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONDIAMINE)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8

Special Provisions: A3 A803
Limited quantity Passenger: 1 L
Passenger LQ: Y841
Excepted quantity: E1

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 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

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

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

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (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).
Water contaminating class (D):	1 - water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Rev. : 1.0 - Initial release 23.08.2017

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
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 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)

Harmful if swallowed.
Harmful if swallowed or in contact with skin.
Toxic in contact with skin.
Harmful in contact with skin.
Causes severe skin burns and eye damage.

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes serious eye irritation.
Harmful if inhaled.
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.
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.)