SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	STEEL-IT Epoxy Reducer/Thinner
Registration number	-
Synonyms	None.
SDS number	SDS-6811-GER
Product code	6811
Issue date	12-November-2012
Version number	01
Revision date	-
Supersedes date	-

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

Identified uses	Paint / Industrial coating.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer	Stainless Steel Coatings, Inc
Address	835 Sterling Road, South Lancaster, MA, 01561
Telephone number	+1 (978)365-9828
e-mail	sds@steel-it.com
Supplier	IHT GmbH Industrial Products
Address	Fasaneweg 2 64380 Rossdorf Germany
Telephone number	+49-6071/74416
Fax	+49-6071/951535
e-mail	iht.gmbh@t-online.de
Contact person	Kurt H.C. Böttcher
1.4. Emergency telephone number	+1-800-424-9300, CHEMTREC

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification	F;R11, Xn;R20/21, Xi;R36/37/38, R66

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards		
Flammable liquids	Category 2	H225 - Highly flammable liquid and vapour.
Health hazards		
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Acute toxicity, inhalation	Category 4	
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

Hazard summary

Physical hazards Highly flammable.

Health hazards Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin. Repeated exposure may cause skin dryness or cracking. Occupational exposure to the substance or mixture may cause adverse health effects.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing. Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. Contains Ethylbenzene and Methyl isobutyl ketone, which is classified as an IARC 2B chemical (Possibly Carcinogenic to Humans).

Main symptoms Vapours may cause drowsiness and dizziness. Skin and eye irritation. Respiratory tract irritation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Methyl isobutyl ketone, O-xylene, P-xylene, m-Xylene

Hazard pictograms

Signal word Danger

Hazard statements

H225 - Highly flammable liquid and vapour.
H332 - Harmful if inhaled.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe mist or vapour.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P370 + P378 - In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.

Storage

P403 - Store in a well-ventilated place.
P235 - Keep cool.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
1-Methoxy-2-propanol	30 - 40	107-98-2 203-539-1	-	603-064-00-3	#

Classification: **DSD:** R10, R67

CLP: Flam. Liq. 3;H226, STOT SE 3;H336

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Methyl isobutyl ketone	30 - 35	108-10-1 203-550-1	-	606-004-00-4	#
Classification:	**DSD:**	F;R11, Xn;R20, Xi;R36/37, R66			
	CLP:	Flam. Liq. 2;H225, Eye Irrit. 2;H319, Acute Tox. 4;H332, STOT SE 3;H335			
m-Xylene	10 - 15	108-38-3 203-576-3	-	601-022-00-9	#
Classification:	**DSD:**	R10, Xn;R20/21, Xi;R38			
	CLP:	Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332			
Ethylbenzene	5 - 10	100-41-4 202-849-4	-	601-023-00-4	#
Classification:	**DSD:**	F;R11, Xn;R20			
	CLP:	Flam. Liq. 2;H225, Acute Tox. 4;H332			
P-xylene	5 - 10	106-42-3 203-396-5	-	601-022-00-9	#
Classification:	**DSD:**	R10, Xn;R20/21, Xi;R38			
	CLP:	Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332			
O-xylene	1 - 5	95-47-6 202-422-2	-	601-022-00-9	#
Classification:	**DSD:**	R10, Xn;R20/21, Xi;R38			
	CLP:	Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332			
2-Methoxy-1-propanol	< 0,2	1589-47-5 249-146-9	-	603-106-00-0	
Classification:	**DSD:**	R10, Repr. Cat. 2;R61, Xi;R37/38-41			
	CLP:	Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, Repr. 1B;H360D			
Toluene	< 0,2	108-88-3 203-625-9	-	601-021-00-3	#
Classification:	**DSD:**	F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67			
	CLP:	Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Repr. 2;H361d, STOT RE 2;H373			

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.
#: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

4.1. Description of first aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort occurs.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops or persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation or symptoms persist.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention if any discomfort occurs.

4.2. Most important symptoms and effects, both acute and delayed Vapours may cause drowsiness and dizziness. Causes skin, eye and respiratory tract irritation.

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

SECTION 5: Firefighting measures

General fire hazards The product is highly flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed. Solvent vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Special protective equipment for firefighters Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid inhalation of vapours and spray mist and contact with skin and eyes.

For emergency responders Keep unnecessary personnel away.

6.2. Environmental precautions Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up Remove sources of ignition. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

6.4. Reference to other sections See Section 8 for personal protective equipment. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Local exhaust is recommended. Avoid inhalation of vapours and spray mist and contact with skin and eyes. The product is highly flammable, and explosive vapour/air mixtures may be formed. Do not smoke, use open fire or other sources of ignition. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use non-sparking hand tools and explosion-proof electrical equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Protect against direct sunlight. Store away from incompatible materials.

7.3. Specific end use(s) Paint / Industrial coating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	TWA	370 mg/m3
		100 ppm
2-Methoxy-1-propanol (CAS 1589-47-5)	TWA	19 mg/m3
		5 ppm
Ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3
		20 ppm
Methyl isobutyl ketone (CAS 108-10-1)	TWA	83 mg/m3

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value
		20 ppm
m-Xylene (CAS 108-38-3)	TWA	440 mg/m3
		100 ppm
O-xylene (CAS 95-47-6)	TWA	440 mg/m3
		100 ppm
P-xylene (CAS 106-42-3)	TWA	440 mg/m3
		100 ppm
Toluene (CAS 108-88-3)	TWA	190 mg/m3
		50 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	AGW	370 mg/m3
		100 ppm
2-Methoxy-1-propanol (CAS 1589-47-5)	AGW	19 mg/m3
		5 ppm
Ethylbenzene (CAS 100-41-4)	AGW	440 mg/m3
		100 ppm
Methyl isobutyl ketone (CAS 108-10-1)	AGW	83 mg/m3
		20 ppm
m-Xylene (CAS 108-38-3)	AGW	440 mg/m3
		100 ppm
O-xylene (CAS 95-47-6)	AGW	440 mg/m3
		100 ppm
P-xylene (CAS 106-42-3)	AGW	440 mg/m3
		100 ppm
Toluene (CAS 108-88-3)	AGW	190 mg/m3
		50 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
Methyl isobutyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
O-xylene (CAS 95-47-6)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
P-xylene (CAS 106-42-3)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
		50 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Biological limit values

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Ethylbenzene (CAS 100-41-4)	800 mg/g	Mandelsäure plus Phenylglyoxylsäure	Creatinine in urine	*
	1 mg/l	Ethylbenzol	Blood	*
Methyl isobutyl ketone (CAS 108-10-1)	3,5 mg/l	4-Methylpentan-2-on	Urine	*
m-Xylene (CAS 108-38-3)	2 g/l	Methylhippur(Toluur-)säure	Urine	*
	1,5 mg/l	Xylol	Blood	*
O-xylene (CAS 95-47-6)	2 g/l	Methylhippur(Toluur-)säure	Urine	*
	1,5 mg/l	Xylol	Blood	*
P-xylene (CAS 106-42-3)	2 g/l	Methylhippur(Toluur-)säure	Urine	*
	1,5 mg/l	Xylol	Blood	*
Toluene (CAS 108-88-3)	3 mg/l	o-Kresol	Urine	*
	1 mg/l	Toluol	Blood	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
1-Methoxy-2-propanol (CAS 107-98-2)	Workers	Dermal	50,6 mg/kg/day	Long term Systemic effects
		Inhalation	553,5 mg/m3	Acute Local effects
		Inhalation	369 mg/m3	Long term Systemic effects
Ethylbenzene (CAS 100-41-4)	Workers	Dermal	180 mg/kg	Long term Systemic effects
		Inhalation	77 mg/m3	Long term Systemic effects
		Inhalation	293 mg/m3	Acute Local effects
m-Xylene (CAS 108-38-3)	Workers	Dermal	3182 mg/kg/24h	Long term exposure systemic effects
		Inhalation	442 mg/m3	Acute - local effects
		Inhalation	442 mg/m3	Acute - systemic effects
		Inhalation	221 mg/m3	Long term exposure local effects
		Inhalation	221 mg/m3	Long term exposure systemic effects
P-xylene (CAS 106-42-3)	Workers	Dermal	3182 mg/kg/24h	Long term exposure systemic effects
		Inhalation	442 mg/m3	Acute - local effects
		Inhalation	442 mg/m3	Acute - systemic effects
		Inhalation	221 mg/m3	Long term exposure local effects
		Inhalation	221 mg/m3	Long term exposure systemic effects
Toluene (CAS 108-88-3)	Workers	Dermal	384 mg/kg/day	Long term Systemic effects
		Inhalation	384 mg/m3	Acute Local effects
		Inhalation	384 mg/m3	Acute Systemic effects
		Inhalation	192 mg/m3	Long term Local effects

Components	Type	Route	Value	Form
		Inhalation	192 mg/m3	Long term Systemic effects

Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
1-Methoxy-2-propanol (CAS 107-98-2)	Aqua (freshwater)	Water	10 mg/l	
	Aqua (intermittent releases)	Water	100 mg/l	
	Aqua (marine water)	Water	1 mg/l	
	Sediment (freshwater)	Not applicable	52,3 mg/kg	
	Sediment (marine water)	Not applicable	5,2 mg/kg	
	Sewage Treatment Plant	Not applicable	100 mg/l	
	Soil	Soil	5,49 mg/kg	
Ethylbenzene (CAS 100-41-4)	Aqua (freshwater)	Water	0,1 mg/l	
	Aqua (intermittent releases)	Water	0,1 mg/l	
	Aqua (marine water)	Water	0,01 mg/l	
	Oral	Oral	0,02 g/kg	
	Sediment (freshwater)	Not applicable	13,7 mg/kg	
	Sewage Treatment Plant	Not applicable	9,6 mg/l	
	Soil	Soil	2,68 mg/kg	
m-Xylene (CAS 108-38-3)	Aqua (freshwater)	Not applicable	0,25 mg/l	
	Aqua (intermittent releases)	Not applicable	0,25 mg/l	
	Aqua (marine water)	Not applicable	0,25 mg/l	
	Sediment (freshwater)	Not applicable	14,33 mg/kg	
	Sediment (marine water)	Not applicable	14,33 mg/kg	
	Sewage Treatment Plant	Not applicable	5 mg/l	
	Soil	Not applicable	2,41 mg/kg	
O-xylene (CAS 95-47-6)	Aqua (freshwater)	Not applicable	0,042 mg/l	
	Aqua (marine water)	Not applicable	0,042 mg/l	
P-xylene (CAS 106-42-3)	Aqua (freshwater)	Not applicable	0,25 mg/l	
	Aqua (intermittent releases)	Not applicable	0,25 mg/l	
	Aqua (marine water)	Not applicable	0,25 mg/l	
	Sediment (freshwater)	Not applicable	14,33 mg/kg	
	Sediment (marine water)	Not applicable	14,33 mg/kg	
	Sewage Treatment Plant	Not applicable	5 mg/l	
	Soil	Not applicable	2,41 mg/kg	
Toluene (CAS 108-88-3)	Aqua (freshwater)	Not applicable	0,68 mg/l	
	Aqua (intermittent releases)	Not applicable	0,68 mg/l	
	Aqua (marine water)	Not applicable	0,68 mg/l	
	Sediment (freshwater)	Not applicable	16,39 mg/kg	
	Sediment (marine water)	Not applicable	16,39 mg/kg	
	Sewage Treatment Plant	Not applicable	13,61 mg/l	
	Soil	Not applicable	2,89 mg/kg	

8.2. Exposure controls

Appropriate engineering controls	Use explosion-proof equipment. Provide adequate ventilation and minimise the risk of inhalation of vapours and mists. Explosion-proof general and local exhaust ventilation. Provide easy access to water supply or an emergency shower.

Individual protection measures, such as personal protective equipment

General information	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Chemical goggles are recommended.
Skin protection	
- Hand protection	Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
- Other	Wear suitable protective clothing. Chemical/oil resistant clothing is recommended.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Clear.
Odour	Characteristic of solvents.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	115,6 - 188,3 °C (240 - 371 °F)
Flash point	18,3 °C (65 °F)
Evaporation rate	Slower then ether.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	1 %
Flammability limit - upper (%)	Not available.
Vapour pressure	Not applicable.
Vapour density	> 1 (air=1,0)
Relative density	0,86 (77°F)
Solubility(ies)	< 2 g/100 g
Decomposition temperature	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	Not available.
Explosive limit	Not available.
Molecular weight	Not available.
VOC (Weight %)	100 %

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable at normal conditions.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Will not occur.

10.4. Conditions to avoid Heat, sparks, flames. Incompatible materials.

10.5. Incompatible materials Strong oxidising agents. Strong reducing agents. Strong acids.

10.6. Hazardous decomposition products Carbon oxides.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Inhalation Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing. May cause central nervous system depression.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Symptoms Vapours may cause drowsiness and dizziness. Skin and eye irritation. Respiratory tract irritation.

11.1. Information on toxicological effects

Acute toxicity Harmful if inhaled or absorbed through skin.

Components	Species	Test results
1-Methoxy-2-propanol (CAS 107-98-2)		
Acute		
Inhalation		
LC50	Rat	15000 ppm, 4 Hours
Oral		
LD50	Rat	6600 mg/kg
2-Methoxy-1-propanol (CAS 1589-47-5)		
Acute		
Dermal		
LD50	Rabbit	5660 mg/kg
Oral		
LD50	Rat	5710 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	18156 mg/kg
Inhalation		
LC50	Rat	55000 mg/m³
Oral		
LD50	Rat	3500 mg/kg
Methyl isobutyl ketone (CAS 108-10-1)		
Acute		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Inhalation		
LC50	Rat	8,2 mg/l, 4 Hours
Oral		
LD50	Rat	2080 mg/kg
m-Xylene (CAS 108-38-3)		
Acute		
Dermal		
LD50	Rabbit	12100 mg/kg
Oral		
LD50	Rat	4300 mg/kg
O-xylene (CAS 95-47-6)		
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg

Components	Species	Test results
Inhalation		
LC50	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Rat	4300 mg/kg
P-xylene (CAS 106-42-3)		
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg
Oral		
LD50	Rat	3523 - 8600 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	14,1 ml/kg
Inhalation		
LC50	Rat	49000 mg/m³, 4 Hours
Oral		
LD50	Rat	636 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation No data available.

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity No data available.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Methyl isobutyl ketone (CAS 108-10-1)	2B Possibly carcinogenic to humans.
m-Xylene (CAS 108-38-3)	3 Not classifiable as to carcinogenicity to humans.
O-xylene (CAS 95-47-6)	3 Not classifiable as to carcinogenicity to humans.
P-xylene (CAS 106-42-3)	3 Not classifiable as to carcinogenicity to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity No data available.

Specific target organ toxicity - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure No data available.

Aspiration hazard No data available.

Mixture versus substance information Not available.

Other information Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test results
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Daphnia	2,1 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	32 - 88 mg/l, 96 hours
		Fathead minnow (Pimephales promelas)	12,1 mg/l, 96 hours
Methyl isobutyl ketone (CAS 108-10-1)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	492 - 593 mg/l, 96 hours

Components		Species	Test results
m-Xylene (CAS 108-38-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2,81 - 5 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8,4 mg/l, 96 hours
O-xylene (CAS 95-47-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0,78 - 2,51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	5,59 - 11,6 mg/l, 96 hours
P-xylene (CAS 106-42-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3,55 - 6,31 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2,6 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5,46 - 9,83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	5,5 mg/l, 96 hours

12.2. Persistence and degradability No data available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Methyl isobutyl ketone	1,31
Toluene	2,73
O-xylene	3,12
P-xylene	3,15
Ethylbenzene	3,15
m-Xylene	3,2

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

Mobility in general The product contains organic solvents which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

EU waste code 08 01 11*
Waste codes should be assigned by the user based on the application for which the product was used.

Disposal methods/information Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

SECTION 14: Transport information

ADR

14.1. UN number UN1263

14.2. UN proper shipping name Paint related material

14.3. Transport hazard class(es) 3

Subsidiary class(es) -

14.4. Packing group II

14.5. Environmental hazards	No
Tunnel restriction code	D/E
Labels required	3
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint related material
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	No
Labels required	3
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint related material
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	No
Labels required	3
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint related material
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	No
Labels required	3
ERG Code	3L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint related material
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No
Labels required	3
EmS	F-E, S-E
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Ethylbenzene (CAS 100-41-4)
Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

2-Methoxy-1-propanol (CAS 1589-47-5)
Toluene (CAS 108-88-3)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

1-Methoxy-2-propanol (CAS 107-98-2)
2-Methoxy-1-propanol (CAS 1589-47-5)
Ethylbenzene (CAS 100-41-4)
Methyl isobutyl ketone (CAS 108-10-1)
m-Xylene (CAS 108-38-3)
O-xylene (CAS 95-47-6)
P-xylene (CAS 106-42-3)
Toluene (CAS 108-88-3)

Directive 94/33/EC on the protection of young people at work

2-Methoxy-1-propanol (CAS 1589-47-5)
Toluene (CAS 108-88-3)

Other regulations	This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.
National regulations	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

Water hazard class

VwVwS	WGK2

SECTION 16: Other information

List of abbreviations

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R36/37 Irritating to eyes and respiratory system.
R36/37/38 Irritating to eyes, respiratory system and skin.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R61 May cause harm to the unborn child.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
H225 - Highly flammable liquid and vapour.
H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H360D - May damage the unborn child.
H361d - Suspected of damaging the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.