

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

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

1.1 Product identifier

Trade name

Lackmaltinte gold OTR.060/OTR.160 Paint Marker

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

Relevant identified uses of the substance or mixture

writing and marking

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Walta Karl GbR - On the Run
Akim Walta
Gewerbehof

Marienburgerstr. 16A
10405 Berlin
Phone +49 (0) 30 - 210 21 86 - 74.
Fax + 49 (0) 30 - 210 21 86 - 77
Email: don@fhf.de

1.4 Emergency telephone number

see Manufacturer/Supplier

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Acute 1; H400

Aquatic Chronic 2; H411

Flam. Liq. 3; H226

STOT SE 3; H336

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS07



GHS09

Signal word

Warning

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

Hazardous component(s) to be indicated on label:

1-methoxy-2-propanol

Hazard statements

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
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.
P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 for extinction.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Mixture based on: alcohols; Resins; Pigments; dyes

Hazardous ingredients

No	Substance name	Additional information		
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	1-methoxy-2-propanol			
	107-98-2 203-539-1 603-064-00-3 -	Flam. Liq. 3; H226 STOT SE 3; H336	>= 50.00 - < 70.00	%-b.w.
2	copper			
	7440-50-8 231-159-6 - 01-2119480154-42	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Acute Tox. 4; H302	>= 10.00 - < 25.00	%-b.w.
3	zinc powder - zinc dust (stabilized)			
	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5.00 - < 10.00	%-b.w.
4	1-methoxy-2-propanol			
	107-98-2 203-539-1 603-064-00-3 01-2119457435-35	Flam. Liq. 3; H226 STOT SE 3; H336	< 5.00	%-b.w.
5	2-methoxypropanol			
	1589-47-5 216-455-5 603-106-00-0 -	Eye Dam. 1; H318 Flam. Liq. 3; H226 Repr. 1B; H360D*** Skin Irrit. 2; H315 STOT SE 3; H335	< 0.50	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(* , ** , *** , ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

3.3 Other information

Concentration data refers to the individual colors.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse mouth thoroughly with water. Call a doctor. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder; Foam; Carbon dioxide; Water mist

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not inhale vapours. Keep away sources of ignition.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

General protective and hygiene measures

Keep away from foodstuffs and beverages. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Wash soiled clothing. Do not inhale vapours. Avoid contact with eyes and skin. Provide eye wash fountain in work area. Have emergency shower available. Use barrier skin cream.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Vapours can form an explosive mixture with air. Take precautionary measures against static charges.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect of heat.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly

Do not store together with: Oxidizing agents

7.3 Specific end use(s)

No data available.

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.		
1	1-methoxy-2-propanol	107-98-2	203-539-1		
	2000/39/EWG				
	1-Methoxypropanol-2				
	STEL	568	mg/m ³	150	ml/m ³
	TWA	375	mg/m ³	100	ml/m ³
	Skin resorption / sensibilisation		Skin		
	List of approved workplace exposure limits (WELs) / EH40				
	1-Methoxypropan-2-ol				
	STEL	560	mg/m ³	150	ml/m ³
	TWA	375	mg/m ³	100	ml/m ³
Skin resorption / sensibilisation		Sk			
2	copper	7440-50-8	231-159-6		
	List of approved workplace exposure limits (WELs) / EH40				
	Copper				
	fume				
	TWA	0.2	mg/m ³		
	List of approved workplace exposure limits (WELs) / EH40				
	Copper				
	dusts and mists				
	Cu				
	STEL	2	mg/m ³		
TWA	1	mg/m ³			
3	1-methoxy-2-propanol	107-98-2	203-539-1		
	2000/39/EWG				
	1-Methoxypropanol-2				
	STEL	568	mg/m ³	150	ml/m ³
	TWA	375	mg/m ³	100	ml/m ³
	Skin resorption / sensibilisation		Skin		
	List of approved workplace exposure limits (WELs) / EH40				
	1-Methoxypropan-2-ol				
	STEL	560	mg/m ³	150	ml/m ³
	TWA	375	mg/m ³	100	ml/m ³
Skin resorption / sensibilisation		Sk			

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

DNEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	copper			7440-50-8 231-159-6	
	dermal	Short term (acute)	systemic	273	mg/kg/day
	dermal	Long term (chronic)	systemic	137	mg/kg/day
	inhalative	Short term (acute)	systemic	18.2	mg/m ³
2	zinc powder - zinc dust (stabilized)			7440-66-6 231-175-3	
	dermal	Long term (chronic)	systemic	83.3	mg/kg/day
	with reference to: Zn Remarks: insoluble				
	inhalative	Long term (chronic)	systemic	5	mg/m ³
with reference to: Zn Remarks: insoluble					
3	1-methoxy-2-propanol			107-98-2 203-539-1	
	dermal	Long term (chronic)	systemic	50.6	mg/kg/day
	inhalative	Long term (chronic)	systemic	369	mg/m ³
	inhalative	Short term (acute)	local	553.5	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	copper			7440-50-8 231-159-6	
	oral	Long term (chronic)	systemic	0.16	mg/kg/day
	dermal	Short term (acute)	systemic	273	mg/kg/day
	dermal	Long term (chronic)	systemic	137	mg/kg/day
2	inhalative	Short term (acute)	systemic	18.2	mg/m ³
	zinc powder - zinc dust (stabilized)			7440-66-6 231-175-3	
	oral	Long term (chronic)	systemic	0.83	mg/kg/day
	Remarks: insoluble				
dermal	Long term (chronic)	systemic	83	mg/kg/day	
Remarks: insoluble					
inhalative	Long term (chronic)	systemic	2.5	mg/m ³	
with reference to: Zn Remarks: insoluble					
3	1-methoxy-2-propanol			107-98-2 203-539-1	
	oral	Long term (chronic)	systemic	3.3	mg/kg/day
	dermal	Long term (chronic)	systemic	18.1	mg/kg/day
	inhalative	Long term (chronic)	systemic	43.9	mg/m ³

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

PNEC values

No	Substance name	CAS / EC no
ecological compartment	Type	Value
1	copper	7440-50-8 231-159-6
	water	fresh water
		7.8 µg/l
	water	marine water
		5.2 µg/l
	water	fresh water sediment
		87 mg/kg
	water	marine water sediment
		676 mg/kg
	soil	-
		65 mg/kg
	sewage treatment plant	-
		230 µg/l
2	zinc powder - zinc dust (stabilized)	7440-66-6 231-175-3
	water	fresh water
		20.6 µg/l
	water	marine water
		6.1 µg/l
	water	fresh water sediment
		117.8 mg/kg
	with reference to: dry weight	
	water	marine water sediment
		56.5 mg/kg
	with reference to: dry weight	
	soil	-
		35.6 mg/kg
	with reference to: dry weight	
	sewage treatment plant	-
		100 µg/l
3	1-methoxy-2-propanol	107-98-2 203-539-1
	water	fresh water
		10 mg/l
	water	marine water
		1 mg/l
	water	Aqua intermittent
		100 mg/l
	water	fresh water sediment
		52.3 mg/kg
	with reference to: dry weight	
	water	marine water sediment
		5.2 mg/kg
	with reference to: dry weight	
	soil	-
		5.49 mg/kg
	with reference to: dry weight	
	sewage treatment plant	-
		100 mg/l

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respiratory filter (gas) : A

Eye / face protection

Safety glasses (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber
Material thickness 0.5 mm
Breakthrough time > 8 h

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
gold coloured	
Odour	
ethereal	
Odour threshold	
No data available	
pH value	
Not applicable	
Boiling point / boiling range	
Value	appr. 120 °C
Melting point / melting range	
No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
Value	31 °C
Method	DIN EN 456
Ignition temperature	
Value	> 250 °C
Source	Literature value
Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
Value	1.7 % vol
Upper flammability or explosive limits	
Value	11.5 % vol
Source	Literature value
Vapour pressure	
Value	12 mbar
Reference temperature	20 °C

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value	appr.	1.2	g/cm ³
Reference temperature		20	°C
Solubility in water			
Remarks	partially miscible		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No data available			
Viscosity			
Value	appr.	30	sec
Type	Efflux time		
Method	DIN cup 3 mm		
Solvent content			
Value	<	70	%

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

strong oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products known.

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Lackmaltinte, Gold
Remarks	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	copper	7440-50-8	231-159-6
LD50		403 - 575	mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		ECHA	
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LD50		> 2000	mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		CSR	
3	1-methoxy-2-propanol	107-98-2	203-539-1
LD50		4016	mg/kg bodyweight
Species		rat	
Source		ECHA	

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	1-methoxy-2-propanol	107-98-2	203-539-1
LD50		> 2000	mg/kg bodyweight
Species		rat	
Source		ECHA	

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LC50		5.41	mg/l
Duration of exposure		4	h
State of aggregation		Dust	
Species		rat	
Method		OECD 403	
Source		CSR	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	1-methoxy-2-propanol	107-98-2	203-539-1
Species		rabbit	
Source		ECHA	
Evaluation		non-irritant	

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	1-methoxy-2-propanol	107-98-2	203-539-1
Species		rabbit	
Source		ECHA	
Evaluation		non-irritant	
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Route of exposure		respiratory tract	
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		Skin	
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	1-methoxy-2-propanol	107-98-2	203-539-1
Route of exposure		Skin	
Species		guinea pig	
Source		ECHA	
Evaluation		non-sensitizing	
Germ cell mutagenicity			
No data available			
Reproduction toxicity			
No data available			
Carcinogenicity			
No data available			
STOT-single exposure			
No data available			
STOT-repeated exposure			
No data available			
Aspiration hazard			
No data available			
Symptoms related to the physical, chemical and toxicological characteristics			
The product can cause skin and eye irritation.			

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)	
No data available	

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		0.9	mg/l
Duration of exposure		48	h
Species with reference to		Ceriodaphnia dubia	
Method		pH < 7	
Source		US EPA 821-R-02-012 CSR	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
NOEC		82	µg/l
Duration of exposure		7	day(s)
Species with reference to		Daphnia magna	
Source		pH 6.0 CSR	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		0.3	mg/l
Duration of exposure		72	h
Species with reference to		Selenastrum capricornutum	
Method		pH > 7 - 8,5	
Source		OECD 201 CSR	

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
NOEC		19	µg/l
Duration of exposure		7	day(s)
Species with reference to		Pseudokirchneriella subcapitata	
Source		pH 8.0 CSR	

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Smaller quantities can be disposed with household garbage.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1263
Technical name	PAINT
Special Provision 640	640E
Tunnel restriction code	D/E
Label	3
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1263
Proper shipping name	PAINT
Danger releasing substance	Copper
EmS	F-E+S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

EC safety data sheet

Current version : 1.0.0, issued: 25.06.2015

Replaced version: -, issued: -

Region: GB

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1263
Proper shipping name	Paint
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No	Substance name	CAS no.	EC no.	No
1	2-methoxypropanol	1589-47-5	216-455-5	30

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	E1, P5c
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If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents (VOC Directive)

VOC content	< 70 %
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Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

Further information

Use restriction recommended by the manufacturer:
In large drums ink is for professional use only.

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.