Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.11.2014 Revision: 05.11.2014 Version number 13

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

- · 1.1 Product identifier
- · Trade name: MA 4500 blue
- · Article number: 100000001165
- · Registration number

The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)

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

Currently no such applications are identified

- · Application of the substance / the mixture alcohol based permanent marking ink
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

DOKUMENTAL GmbH & Co KG Schreibfarben

Woellnerstraße 26 D-67065 Ludwigshafen Phone + 49(0)621/5402321 Fax + 49(0)621/5402391 www. dokumental.de

· Further information obtainable from:

Technical Service, Dr. B. Polzin Tel.: +49-621-5402322 Mobile +49-1726204412 E-Mail: bernd.polzin@dokumental.de

• 1.4 Emergency telephone number: GBK Gefahrgut Büro GmbH ++49 (0) 6132 / 84463 Ingelheim, Deutschland

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.

R10-52/53-67: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the ${\it EU}$ " in the latest valid version. Has a narcotising effect.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms









GHS02 GHS05

· Signal word Danger

· Hazard-determining components of labelling:

propan-1-ol

C. I. Solvent Blue 4: less than 0,1% Michler's Ketone

Phosphoric acid mono-bis-(2-ethylhexyl)-ester

Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H411 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.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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. Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 2.3 Other hazards

P310

- \cdot Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring agents.
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 71-23-8	propan-1-ol	50-100%	
EINECS: 200-746-9	Xi R41; 🔥 F R11		
	R6 7		
	♦ Flam. Liq. 2, H225; ♦ Eye Dam. 1, H318; ♦ STOT SE 3, H336		
CAS: 12645-31-7	Phosphoric acid mono-bis-(2-ethylhexyl)-ester	2,5-10%	
EINECS: 235-741-0			
	♦ Skin Corr. 1C, H314		
CAS: 6786-83-0	C. I. Solvent Blue 4: less than 0,1% Michler's Ketone	<u><</u> 2,5%	
EINECS: 229-851-8	🔀 Xn R20/22; 腸 N R50/53		
	♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Acute Tox. 4, H302; Acute Tox. 4, H332		

· Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- \cdot 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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 \cdot 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Wear protective clothing.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin. Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Fluid

Fully miscible.

· Eye protection:



Tightly sealed goggles

SECTION 9:	Physical	and chemi	ical propert:	ies
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. 9	9.1	Information	on	basic	physical	and	chemical	properties
-----	-----	-------------	----	-------	----------	-----	----------	------------

· General Information

· Appearance:

Form: Colour:

Colour: According to product specification

Odour: Product specificOdour threshold: Not determined.

 Important information on protection of health and environment, and on safety.

- pH-value: Not determined.

· Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range: 96 °C

• Flash point: 23 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 360 °C

· Decomposition temperature: Not determined.

Self-igniting: Product is not selfigniting.
 Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

 \cdot Explosion limits:

Lower: 2,1 Vol % Upper: 13,5 Vol %

· Vapour pressure at 20 °C: 19 hPa

Density at 20 °C: 0,84 g/cm³
 Relative density Not determined.
 Vapour density Not determined.
 Evaporation rate Not determined.

· Solubility in / Miscibility with water:

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic at 20 °C: 3,5 mPas
Kinematic: Not determined.

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	(Contd. of page 4)
· Solvent content:	
Organic solvents:	87,9 %
Solids content:	8,1 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- \cdot Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values relevant for classification:			
71-23-8 propan-1-o1			
Oral	LD50	8000 mg/kg (rat)	
Dermal	LD50	4000 mg/kg (rab)	
Inhalative	LC50/4 h	9,8 mg/l (rat)	

- · Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitisation: No sensitising effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

6786-83-0 C. I. Solvent Blue 4: less than 0,1% Michler's Ketone

EC50 / 48h 0,025 mg/l (Daphnie)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

- \cdot 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue				
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS			
08 01 00	wastes from MFSU and removal of paint and varnish			
08 01 13*	sludges from paint or varnish containing organic solvents or other dangerous substances			
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- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
14.1 UN-Number	IIN1 262
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	1263 PAINT, ENVIRONMENTALLY HAZARDOUS
IMDG	PAINT (C. I. Solvent Blue 4 < 0,1% Michler's
	Ketone), MARINE POLLUTANT
IATA	PAINT
14.3 Transport hazard class(es)	
ADR	
* * * * * * * * * *	
Class	3 (F1) Flammable liquids.
Label	3
1 1 1 1 1 1 1 1 1 1	
Class	3 Flammable liquids.
Label	3
IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous
14.5 Environmental nazarqs:	substances: C. I. Solvent Blue 4 < 0,1% Michler's
	substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone
	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes</pre>
Marine pollutant:	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree)</pre>
Marine pollutant:	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree)</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree)</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids.</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number:	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number:	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E</pre> Tof
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information:	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E</pre> Tof
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E</pre> Tof Not applicable.
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ)	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E</pre> Tof Not applicable.
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ)	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E</pre> Tof Not applicable. 5L Code: E1
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ)	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E Tof Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ)	substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E Tof Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E T of Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E Tof Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E T of Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E T of Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E Tof Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E</pre>
Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG Limited quantities (LQ)	<pre>substances: C. I. Solvent Blue 4 < 0,1% Michler's Ketone Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 30 F-E,S-E Tof Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E</pre> 5L

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Trade name: MA 4500 blue

· UN "Model Regulation":

UN1263, PAINT, ENVIRONMENTALLY HAZARDOUS, 3, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eve damage.
- Harmful if inhaled. H332
- May cause drowsiness or dizziness. H336
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R11 Highly flammable.
- R20/22 Harmful by inhalation and if swallowed.
- Causes severe burns. R35
- Risk of serious damage to eyes. R41
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67 Vapours may cause drowsiness and dizziness.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
** Pata commarced to the previous version altered**

* Data compared to the previous version altered.