

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 11.06.2013

V - 4

Revision: 11.06.2013

**1 Identification of the substance/mixture and of the company/undertaking**

- **Product identifier**
  - **Trade name:** **Kunststoff Farbauffrischer**
  - **Relevant identified uses of the substance or mixture and uses advised against** *Not determined*
  - **Application of the substance / the preparation** *Maintenance product*
  - **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Yachticon A. Nagel GmbH  
Hans-Böckler-Ring 33  
22851 Norderstedt  
Phone: +49 (40) 5113780 ; Fax: +49 (40) 517437 ; yachticon@yachticon.de
  - **Further information obtainable from:**  
*Abteilung Labor / +49 (40) 5113780  
yachticon@yachticon.de*
  - **Emergency telephone number:**  
*Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland  
Phone: +49 (0)551 19240, +49 (0)551 383180*
- 

**2 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
.....  
*R66: Repeated exposure may cause skin dryness or cracking.*
- **Information concerning particular hazards for human and environment:**  
*Heightened danger of slipping when the product is spilled on the floor.  
Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.  
Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms  
Self igniting on contact with air and dry surfaces.*
- **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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· **Label elements**

· **Labelling according to EU guidelines:**

The product has been marked in accordance with EU Directives / respective national laws.

· **Risk phrases:**

66 Repeated exposure may cause skin dryness or cracking.

· **Safety phrases:**

2 Keep out of the reach of children.

23 Do not breathe vapour/spray.

24/25 Avoid contact with skin and eyes.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

· **Special labelling of certain preparations:**

Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64742-82-1 EC number: 919-164-8 Reg.nr.: 01-2119473977-17	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ☒ Xn R65 R66 ⚠ Asp. Tox. 1, H304; Aquatic Chronic 3, H412	50-100%
CAS: 64742-82-1 EC number: 919-164-8 Reg.nr.: 01-2119473977-17	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ☒ Xn R65 R52/53-66 ⚠ Asp. Tox. 1, H304; Aquatic Chronic 3, H412	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-34 01-2119488216-32	xylene, mixture of isomers ☒ Xn R20/21; ☒ Xi R38 R10 ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ STOT SE 3, H335	1.0-2.5%
CAS: 15956-58-8	2-ethylhexanoic acid, manganese salt ☒ Xn R48/20/22-63; ☒ Xi R36/38; ☒ N R51/53 Repr. Cat. 3 ⚠ Repr. 2, H361d; ⚠ STOT RE 2, H373; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319	0.1-1.0%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	cobalt bis(2-ethylhexanoate) ☒ Xn R62; ☒ Xi R43; ☒ N R50/53 Repr. Cat. 3 ⚠ Repr. 2, H361f; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	0.1-1.0%

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

#### 4 First aid measures

· **Description of first aid measures**

· **General information:**

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs.

#### 5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

Carbon monoxide and carbon dioxide

· **Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information**

Remove undamaged containers from the danger zone.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

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Ensure adequate ventilation

Keep away from ignition sources.

· **Environmental precautions:**

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

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

· **Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Collect with an inert, non-combustible, absorbent material (i.e. sand, diatomaceous earth, acid binder, universal binder).

Pls. refer to section 10

· **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.

## 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Keep receptacles tightly sealed.

Prevent formation of aerosols.

Do not inhale gases / fumes / aerosols.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Avoid contact with the eyes and skin.

· **Information about fire - and explosion protection:**

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Fumes can combine with air to form an explosive mixture.

Use explosion-proof apparatus / fittings and spark-proof tools.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Anti-explosion protection required

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Adhere to the provisions of the Law on Water Protection.

· **Information about storage in one common storage facility:**

Store away from oxidizing agents.

Keep away from foodstuffs, beverages and feed.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Keep ignition sources away - Do not smoke.

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

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· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**1330-20-7 xylene, mixture of isomers**

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

· **DNELs**

**1330-20-7 xylene, mixture of isomers**

Oral	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	108 mg/kg bw/day (general population) 180 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	174 mg/m <sup>3</sup> (general population) 289 mg/m <sup>3</sup> (worker)
	Acute/short-term exposure - systemic effects	174 mg/m <sup>3</sup> (general population) 289 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	14.8 mg/m <sup>3</sup> (general population) 77 mg/m <sup>3</sup> (worker)

**136-52-7 cobalt bis(2-ethylhexanoate)**

Oral	Long-term exposure - systemic effects	0.0558 mg/kg bw/day (general population)
Inhalative	Long-term exposure - local effects	0.037 mg/m <sup>3</sup> (general population) 0.235 mg/m <sup>3</sup> (worker)

· **PNECs**

**1330-20-7 xylene, mixture of isomers**

PNEC STP	6.58 mg/l (-)	
PNEC aqua	0.327 mg/l (freshwater) 0.327 mg/l (marine water) 0.327 mg/l (intermittent releases)	
	PNEC sediment	12.46 mg/kg (freshwater) 12.46 mg/kg (marine water)

**136-52-7 cobalt bis(2-ethylhexanoate)**

PNEC STP	0.37 mg/l (-)
PNEC aqua	0.00051 mg/l (freshwater) 0.00236 mg/l (marine water)
	PNEC sediment
PNEC soil	7.9 mg/kg (soil dw)

· **Ingredients with biological limit values:**

**1330-20-7 xylene, mixture of isomers**

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BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.  
Wash hands before breaks and at the end of work.  
Immediately remove all soiled and contaminated clothing  
Store protective clothing separately.  
Avoid contact with the eyes and skin.  
Use skin protection cream for skin protection.  
Keep away from foodstuffs, beverages and feed.

· **Respiratory protection:**

Adhere to the workplace limit values and / or other threshold values.  
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.  
Filter A/P2

· **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each renewed use of the glove.

· **Material of gloves**

Nitrile rubber, NBR

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

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## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Liquid  
**Colour:** Light brown  
**Odour:** Solvent-like

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** > 100 °C

· **Flash point:** > 61 °C

· **Ignition temperature:** 300 °C

· **Self-igniting:** Pls. refer to section 10

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

**Lower:** ~1 Vol %  
**Upper:** ~6 Vol %

· **Density at 20 °C:** 0.9 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Viscosity:**

**Kinematic at 40 °C:** > 7 mm<sup>2</sup>/s

· **Other information**

No further relevant information available.

## 10 Stability and reactivity

· **Reactivity** No decomposition if used according to specifications.

· **Chemical stability** No decomposition if used and stored according to specifications.

· **Possibility of hazardous reactions**

Self igniting on contact with air and dry surfaces.

Fumes can combine with air to form an explosive mixture.

Reacts with strong oxidizing agents.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

Oral	LD50	> 15000 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 3400 mg/kg (rabbit) (OECD 402)

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Inhalative	LC 50 / 4h	> 13.1 mg/l (rat) (OECD 403 Vapour)
<b>64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b>		
Oral	LD 50	> 15000 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 3400 mg/kg (rabbit) (OECD 402)
Inhalative	LC 50 / 4h	> 13.1 mg/l (rat) (OECD 403 Vapour)
<b>1330-20-7 xylene, mixture of isomers</b>		
Oral	LD 50	> 4000 mg/kg (rat)
Dermal	LD 50	> 1700 mg/kg (rabbit)
Inhalative	LC 50 / 4h	21.7 mg/l (rat) (Vapour)
	LC50 /4h	5000 ppm (rat) (Gas)
<b>136-52-7 cobalt bis(2-ethylhexanoate)</b>		
Oral	LD50	3129 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:**  
Repeated exposure may cause skin dryness or cracking.  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
- **on the eye:** No irritating effect.
- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:** Vapours may cause drowsiness and dizziness.
- **Sensitisation**  
Sensitization possible through skin contact.  
Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

<b>64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b>	
EC10	0.11 - 0.25 mg/l (crustacean) (OECD 211, 21d)
EC50/96h	2.6 mg/l (Chaetogammarus marinus)
EL50/48h	100-200 mg/l (crustacean) (OECD 202)
EL50/72h	10-100 mg/l (algae) (OECD 201)
LL50/96h	10-100 mg/l (fish) (OECD 203)
LOEC	0.20 - 0.83 mg/l (crustacean) (OECD 211, 21d)
NOEC	0.10 - 0.37 mg/l (crustacean) (OECD 211, 21d)
NOELR	3 mg/l (algae) (OECD 201, 72 h)
<b>64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b>	
EC10	0.11-0.25 mg/l (crustacean) (OECD 211, 21d)
EC50/96h	2.6 mg/l (Chaetogammarus marinus)
EL50/48h	100-200 mg/l (crustacean) (OECD 202)
EL50/72h	10 - 100 mg/l (algae) (OECD 201)
LL50/96h	10 - 100 mg/l (fish) (OECD 203)

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LOEC	0.20 - 0.83 mg/l (crustacean) (OECD 211, 21d)
NOEC	0.10 - 0.37 mg/l (crustacean) (OECD 211, 21d)
NOELR	3 mg/l (algae) (OECD 201, 72 h)

**1330-20-7 xylene, mixture of isomers**

EC50	> 175 mg/l (activated slugde)
EC50/48h	3.82 mg/l (daphnia magna)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	7.6 mg/l (oncorhynchus mykiss)
NOEC	> 1.3 mg/l (oncorhynchus mykiss) (56 d)

**136-52-7 cobalt bis(2-ethylhexanoate)**

EC50/72h	0.528 mg/l (algae)
LC50/96h	48 mg/l (pimephales promelas)
NOEC (aqua chron.)	0.21 mg/l (pimephales promelas) (OECD, 34d)

**· Persistence and degradability**

**1330-20-7 xylene, mixture of isomers**

Biodegradation	87.8 % (-) (28d)
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**136-52-7 cobalt bis(2-ethylhexanoate)**

Biodegradation	60 % (-) (OECD Guideline 301 B, aerobic, 10d)
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**· Behaviour in environmental systems:**

**· Bioaccumulative potential**

**64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

log Kow	> 3 (-)
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**64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

log Kow	> 3 (-)
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**1330-20-7 xylene, mixture of isomers**

BCF	6 - 23.4 (-)
log Pow	> 3 (-)

**136-52-7 cobalt bis(2-ethylhexanoate)**

BCF	156 (-)
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· **Mobility in soil** No further relevant information available.

**· Additional ecological information:**

**· General notes:**

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.

**· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

**· Waste treatment methods**

**· Recommendation**

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

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**· Waste disposal key:**

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

**· European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
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**· Uncleaned packaging:**

**· Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

**· UN-Number**

**· ADR, ADN, IMDG, IATA** Void

**· UN proper shipping name**

**· ADR, ADN, IMDG, IATA** Void

**· Transport hazard class(es)**

**· ADR, ADN, IMDG, IATA**

**· Class** Void

**· Packing group**

**· ADR, IMDG, IATA** Void

**· Special precautions for user** Not applicable.

**· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**· Transport/Additional information:** Not dangerous according to the above specifications.

**15 Regulatory information**

**· Safety, health and environmental regulations/legislation specific for the substance or mixture**

**· National regulations:**

**· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**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.

**· Relevant phrases**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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- H335 *May cause respiratory irritation.*  
H361d *Suspected of damaging the unborn child.*  
H361f *Suspected of damaging fertility.*  
H373 *May cause damage to organs through prolonged or repeated exposure.*  
H400 *Very toxic to aquatic life.*  
H410 *Very toxic to aquatic life with long lasting effects.*  
H411 *Toxic to aquatic life with long lasting effects.*  
H412 *Harmful to aquatic life with long lasting effects.*
- R10 *Flammable.*  
R20/21 *Harmful by inhalation and in contact with skin.*  
R36/38 *Irritating to eyes and skin.*  
R38 *Irritating to skin.*  
R43 *May cause sensitisation by skin contact.*  
R48/20/22 *Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.*  
R50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*  
R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*  
R52/53 *Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*  
R62 *Possible risk of impaired fertility.*  
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.*

· **Department issuing MSDS:** Abteilung Labor

· **Contact:** Frau S. Schaller

· **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 Organization

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **\* Data compared to the previous version altered.**