



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

Printing date 29.04.2014

Version: 4

Revision: 29.04.2014

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

**1.1 Product identifier**

Trade name: **AERORUST**

Article number: EU14301

1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

**Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC14 Metal surface treatment products, including galvanic and electroplating products

**Process category**

PROC7 Industrial spraying

PROC11 Non industrial spraying

**Environmental release category**

ERC8a Wide dispersive indoor use of processing aids in open systems

ERC8d Wide dispersive outdoor use of processing aids in open systems

Application of the substance / the mixture Coating compound/ Surface coating/ paint

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

ZEP UK; Forward Chemicals Limited

P.O. Box 12

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Widnes Cheshire

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ZEP Industries BV

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4612 PN Bergen op Zoom

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ZEP Italy s.r.l.

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Tel: +39.06926691

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@: info@zepitalia.it

Sito: www.zepeurope.com

**Further information obtainable from:**

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

**1.4 Emergency telephone number:**

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Xi; Irritant

R36: Irritating to eyes.

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F+; Extremely flammable

R12: Extremely flammable.

R52-67: Harmful to aquatic organisms. 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 EU" in the latest valid version.

Warning! Pressurized container.

Has a narcotizing effect.

**Classification system:**

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

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

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

**Hazard pictograms**

GHS02

GHS07

**Signal word Danger****Hazard-determining components of labelling:**

acetone

**Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P211 Do not spray on an open flame or other ignition source.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

**Additional information:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

57.6 % by mass of the contents are flammable

2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

**3.2 Chemical characterization: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

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CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2219471330-49-xxxx	acetone Xi R36 F R11 R66-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane F+ R12 Flam. Gas 1, H220 Press. Gas, H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 012119486944-21-xxxx	propane F+ R12 Flam. Gas 1, H220 Press. Gas, H280	10-25%
CAS: 64742-48-9 EINECS: 265-150-3 Reg.nr.: 01-2119486659-16-xxxx	Naphtha (petroleum), hydrotreated heavy Xn R65 R66 Asp. Tox. 1, H304	2.5-5%
CAS: 64742-82-1 EINECS: 265-185-4 Reg.nr.: 01-2119490979-12	Naphtha (petroleum), hydrodesulfurized heavy Xn R65 Flam. Liq. 3, H226 Asp. Tox. 1, H304	2.5-5%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane F+ R12 Flam. Gas 1, H220 Press. Gas, H280	1-2.5%
CAS: 108-67-8 EINECS: 203-604-4	mesitylene Xi R37 N R51/53 R10 Flam. Liq. 3, H226 Aquatic Chronic 2, H411 STOT SE 3, H335	0.1-1%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene Xn R20 Xi R36/37/38 N R51/53 R10 Flam. Liq. 3, H226 Aquatic Chronic 2, H411 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.1-1%

· **Ingredients according to Detergents Regulation 648/2004/EC** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Seek immediate medical advice.

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

· **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:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:**

Water

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Water with full jet

- **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.
- **Additional information** Cool endangered receptacles with water spray.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **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.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **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**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Do not seal receptacle gas tight.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **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:**

### 67-64-1 acetone (10-25%)

WEL (Great Britain)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
IOELV (European Union)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

### 106-97-8 butane (10-25%)

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Care (if more than 0.1% of buta-1.3-diene)
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**108-67-8 mesitylene (0.1-1%)**

WEL (Great Britain)	Long-term value: 125 mg/m <sup>3</sup> , 25 ppm ILV
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IOELV (European Union)	Long-term value: 100 mg/m <sup>3</sup> , 20 ppm
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**95-63-6 1,2,4-trimethylbenzene (0.1-1%)**

WEL (Great Britain)	Long-term value: 125 mg/m <sup>3</sup> , 25 ppm ILV
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IOELV (European Union)	Long-term value: 100 mg/m <sup>3</sup> , 20 ppm
------------------------	---

**· DNELs****67-64-1 acetone**

Oral	DNEL Long term-systemic	62 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	62 mg/kg human/day (consumer) 186 mg/kg human/day (worker)
Inhalative	DNEL Acute-local mg/m <sup>3</sup>	2420 mg/m <sup>3</sup> (worker)
	DNEL Long term-systemic mg/m <sup>3</sup>	200 mg/m <sup>3</sup> (consumer) 1210 mg/m <sup>3</sup> (worker)

**64742-48-9 Naphtha (petroleum), hydrotreated heavy**

Oral	DNEL acute-systemic	300 mg/kg human/day (consumer)
Dermal	DNEL Acute-systemic	300 mg/kg human/day (consumer)
		300 mg/kg human/day (worker)
Inhalative	DNEL Acute-systemic mg/m <sup>3</sup>	900 mg/m <sup>3</sup> (consumer)
		1500 mg/m <sup>3</sup> (worker)

**64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy**

Oral	DNEL Long term-systemic	26 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	26 mg/kg human/day (consumer)
		44 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m <sup>3</sup>	71 mg/m <sup>3</sup> (consumer)
		330 mg/m <sup>3</sup> (worker)

**· PNECs****67-64-1 acetone**

PNEC Freshwater mg/L	10.6 mg/L (-)
PNEC Intermittent release	21 (-) (mg/L)
PNEC Marine water sediment	3.04 mg/Kg (-)
PNEC Marinewater mg/L	1.06 mg/L (-)
PNEC Soil	33.3 mg/Kg (-)

· **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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

**· Protection of hands:**

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

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The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- **Not suitable are gloves made of the following materials:** Strong material gloves
- **Eye protection:**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

· <b>Form:</b>	Aerosol
· <b>Colour:</b>	According to product specification
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

##### · Change in condition

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	-44 °C

· **Flash point:** < 0 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 240 °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.

##### · Explosion limits:

· <b>Lower:</b>	1.5 Vol %
· <b>Upper:</b>	13.0 Vol %

· **Vapour pressure at 20 °C:** 3500 hPa

· **Density at 20 °C:** 0.73 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not applicable.

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

Insoluble.

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

##### · Viscosity:

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

##### · Solvent content:

· <b>Organic solvents:</b>	86.4 %
· <b>EU-VOC:</b>	572.0 g/l
· <b>EU-VOC</b>	57.50 %
· <b>Swiss VOC:</b>	57.50 %

· **Solids content:** 10.0 %

· **9.2 Other information** No further relevant information available.

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### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **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:**

#### 67-64-1 acetone

Oral	LD50	>3000 mg/kg (Mouse)
		5800 mg/kg (Rat)
		>5000 mg/kg (Rabbit)
Dermal	LD50	>15800 mg/kg (Rat)
		>15000 mg/kg (Rabbit)
Inhalative	LC50 / 4 h	76 mg/ltr (Rat)
	EC 50 / 48 h	8800 mg/ltr (Daphnia magna (water flea))
	LC50 / 48 h	2262 mg/ltr (Daphnia magna (water flea))
	LC50 / 96 h (static)	5540 mg/ltr (fish)
		100 mg/ltr (Pimephales promelas)

#### 106-97-8 butane

Inhalative	LC50 / 4 h	658 mg/ltr (Rat)
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#### 64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>15000 mg/kg (Rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50 / 4 h	>2.8 mg/ltr (Rat)
	EC 50 / 48 h	>1000 mg/ltr (Daphnia magna (water flea))

#### 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>3160 mg/kg (Rabbit)

#### 108-67-8 mesitylene

Inhalative	LC50 / 4 h	24 mg/ltr (Rat)
	EC50	50 mg/ltr (Daphnia magna (water flea)) 24 h

#### 95-63-6 1,2,4-trimethylbenzene

Oral	LD50	>3500 mg/kg (Rat)
Dermal	LD50	3160 mg/kg (Rat)
Inhalative	LC50 / 4 h	18 mg/ltr (Rat)
	EC 50 / 48 h	3.6 mg/ltr (Daphnia magna (water flea))

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:**  
Strong irritant with the danger of severe eye injury.  
Irritating effect.
- **Sensitization:** No sensitizing 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:

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Irritant

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

67-64-1 acetone

COD 2.21 (mg O<sub>2</sub> / g product)

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.

#### Ecotoxicological 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

### 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

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 04 metallic packaging

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 12 waste paint and varnish other than those mentioned in 08 01 11

#### Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

## SECTION 14: Transport information

### 14.1 UN-Number

ADR, IMDG, IATA UN1950

### 14.2 UN proper shipping name

ADR 1950 AEROSOLS

IMDG AEROSOLS

IATA AEROSOLS, flammable

### 14.3 Transport hazard class(es)

#### ADR



Class 2 5F Gases.

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· **Label** 2.1· **IMDG, IATA**· **Class** 2.1· **Label** 2.1· **14.4 Packing group**· **ADR, IMDG, IATA** Void· **14.5 Environmental hazards:**· **Marine pollutant:** No· **14.6 Special precautions for user** Warning: Gases.· **Danger code (Kemler):** -· **EMS Number:** F-D,S-U· **14.7 Transport in bulk according to Annex II of****MARPOL73/78 and the IBC Code** Not applicable.· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)** 1L· **Transport category** 2· **Tunnel restriction code** D· **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

### 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	50-75

· **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.

· **Relevant phrases**

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R20	Harmful by inhalation.
R36	Irritating to eyes.

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*R36/37/38 Irritating to eyes, respiratory system and skin.**R37 Irritating to respiratory system.**R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**R65 Harmful: may cause lung damage if swallowed.**R66 Repeated exposure may cause skin dryness or cracking.**R67 Vapours may cause drowsiness and dizziness.***· Department issuing MSDS:***Customer Service**NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710**B: Tel: +32 2 347 0117 Fax: +32 2 347 1395**IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61**UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011***· Contact:***Customer Service**NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710**B: Tel: +32 2 347 0117 Fax: +32 2 347 1395**IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61**UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011***· 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)**IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)**ICAO: International Civil Aviation Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**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 Harmonized 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)**VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)**VOC: Volatile Organic Compounds (USA, EU)**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.**

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