

According to 1907/2006 EEC Article 31

Page 1/11

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

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

- · 1.1 Product identifier
- · Trade name: Zettex Stainless Steel Spray
- · Article number:
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use

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

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

SU21 Consumer uses: Private households / general public / consumers

· Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

· Application of the substance / the mixture

Metal surface treatment

Spray varnish

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Zettex Europe BV

Plaza 20, 4782 SK Moerdijk

The Netherlands

+31(0)888-938839

info@zettex.nl

www.zettex.nl

• **1.4 Emergency telephone number:** +31(0)888-938839

SECTION 2: Hazards identification

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



GHS02 flame

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



GHS09 environment

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



GHS07

Acute Tox. 4	H302	Harmful if swallowed.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

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

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

(Contd. of page 1)

Safety data sheet According to 1907/2006 EEC Article 31

Version: 15 Revision: 13.03.2017 Printing date: 13.03.2017

Trade name: Zettex Stainless Steel Spray

· Hazard pictograms







GHS02

GHS07

· Signal word Danger

· Hazard-determining components of labelling:

2-butoxyethanol

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

(R)-p-mentha-1,8-diene

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

· Hazard statements

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

H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. May cause drowsiness or dizziness. H336

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

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 spray.

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

P280 Wear protective gloves / eye protection. P271 Use only outdoors or in a well-ventilated area.

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.

P403 Store in a well-ventilated place.

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

regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Active substance with propellant

· Dangerous components:					
EC number: 921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	10-<25%			
Reg.nr.: 01-2119475514-35	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336				
CAS: 64-17-5	ethanol	10-<25%			
EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	Flam. Liq. 2, H225; Eye Irrit. 2, H319				

(Contd. on page 3)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

	(C	ontd. of page
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	10-<25%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	0.1-<1.0%
CAS: 5989-27-5 EINECS: 227-813-5 Reg.nr.: 01-2119529223-47	(R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	0.25-<1%
0 0	etergents guidline 648/2004/EC	
aliphatic hydrocarbons		≥30%
(R)-p-mentha-1,8-diene		<5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· Additional information:

- · 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.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- · 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:

Water haze

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents: 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: Mount respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

Version: 15 Revision: 13.03.2017 Printing date: 13.03.2017

Trade name: Zettex Stainless Steel Spray

· 6.2 Environmental precautions:

(Contd. of page 3)

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

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.

Pressurised 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 pressurised containers.

· Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurised containers.

· 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:

64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

106-97-8 butane (containing < 0.1% butadiene (203-450-8))

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

74-98-6 propane

OEL | Short-term value: 3600 mg/m³, 2000 ppm Long-term value: 1800 mg/m³, 1000 ppm

(Contd. on page 5)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

		(Contd. of page 4)				
111-76-2	2-butoxyethanol					
	WEL Short-term value: 246 mg/m ³ , 50 ppm					
	ng-term value: 123 mg/m ³ , 25	5 ppm				
	BMGV					
_	ropan-2-ol					
	ort-term value: 1250 mg/m ³ , 5					
Lo	ng-term value: 999 mg/m ³ , 40	00 ppm				
· DNELs						
Hydrocal	rbons, C6-C7, n-alkanes, iso	oalkanes, cyclics, <5% n-hexane				
Oral	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)				
Dermal	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)				
		773 mg/kg bw/day (Worker)				
Inhalative	DNEL Long term-systemic	608 mg/m3 (Consumer)				
		2035 mg/m3 (Worker)				
Hydroca	rbons, C9-C11, n-alkanes, i	soalkanes, cyclics, <2% aromatics				
Oral	DNEL Long term-systemic	125 mg/kg bw/day (Consumer)				
Dermal	DNEL Long term-systemic	125 mg/kg bw/day (Consumer)				
		208 mg/kg bw/day (Worker)				
Inhalative	DNEL Long term-systemic	185 mg/m3 (Consumer)				
		871 mg/m3 (Worker)				
· Ingredier	· Ingredients with biological limit values:					
111-76-2	2-butoxyethanol					
BMGV 2	40 mmol/mol creatinine					
	Medium: urine					
	ampling time: post shift					
F	Parameter: butoxyacetic acid					

- · 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 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.

Filter AX/P2

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

· Protection of hands:

Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

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

(Contd. on page 6)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

(Contd. of page 5)

resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

· Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

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

· Eye protection:

Safety glasses



Tightly sealed goggles

· **Body protection:** Use protective suit. (EN-13034/6)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Aerosol

Colour: According to product specification

Odour: CharacteristicOdour threshold: Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: -44 °C

· Flash point: -97 °C

· Flammability (solid, gas): Not applicable.

· **Auto-ignition temperature:** Product is not selfigniting.

• **Explosive properties:** Product is not explosive. However, formation of explosive air/

vapour mixtures are possible.

· Explosion limits:

Lower: 0.6 Vol % **Upper:** 15.0 Vol %

15.0 vol %

· Vapour pressure at 20 °C: 8300 hPa · Density at 20 °C: 0.69 g/cm³

• Relative density
• Vapour density
• Not determined.
• Not determined.

• Evaporation rate Not applicable.

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

(Contd. on page 7)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

		(Contd. of page 6)
$\cdot \ \textbf{Partition coefficient: n-octanol/water:}$	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	95.2 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 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

Harmful if swallowed.

· LD/LC50	· LD/LC50 values relevant for classification:		
Hydrocar	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	>5840 mg/kg (rat)	
Dermal	LD50	>2920 mg/kg (rabbit)	
Inhalative	LC50/4h	>25 mg/l (rat)	
Hydrocar	bons, C9-C	11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
Inhalative	LC50 (4h)	250 (4h) 4951 mg/m3 (rat)	
111-76-2 2	2-butoxyeth	anol	
Oral	LD50	300 mg/kg (rabbit)	
		470 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
5989-27-5	5989-27-5 (R)-p-mentha-1,8-diene		
Oral	LD50	4400 mg/kg (rat)	
Dermal	LD50	≥2000 mg/kg (rabbit)	

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.

(Contd. on page 8)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

(Contd. of page 7)

· STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:			
Hydrocarbons,	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
NOELR (72h)	3 mg/l (Pseudokirchneriella subcapitata)		
EL50(48h)	3 mg/l (Daphnia magna)		
EL50 (72h)	30-100 mg/l (Pseudokirchneriella subcapitata)		
LL50 (96h)	11.4 mg/l (Oncorhynchus mykiss (96h))		
NOEC (21 days)	0.17 mg/l (Daphnia magna)		
LOEC (21 days)	0.32 mg/l (Daphnia magna)		
Hydrocarbons,	C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		
EL0 (48h)	1000 mg/l (Daphnia magna)		
NOELR (72h)	100 mg/l (Pseudokirchneriella subcapitata)		
EL50 (72h)	>1000 mg/l (Pseudokirchneriella subcapitata)		
LL50 (96h) >1000 mg/l (Oncorhynchus mykiss (96h))			
111-76-2 2-butoxyethanol			
LC50	1490 mg/l (Lepomis macrochirus (96 h))		

- · 12.2 Persistence and degradability Easily biodegradable
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for 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.

Also poisonous for fish and plankton in water bodies.

Toxic for 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.

	1	0	0	0	1	8 ,
· European		0				
07 01 04*	other organ	nic solvents, washing	g liquids	and mo	other liquors	
20 01 99	other fract	ions not otherwise sp	pecified			

(Contd. on page 9)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

(Contd. of page 8)

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

SECTION 14: Transport information	on
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR, ADN	UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (Naphtha (petroleum) hydrotreated light,
· IATA	DIPENTENE), MARINE POLLUTANT AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	2 5F Gases.2.1
· ADN · ADN/R Class:	2 5F
· Class · Label	2.1 2.1
· IATA · Class	2.1
· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: (R)-p-mentha-1,8-diene
· Marine pollutant: · Special marking (ADR):	Yes Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Code	Warning: Gases. F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category

(Contd. on page 10)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

	(Contd. of page
· Segregation Code	C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
• • •	Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:

	_
Class	Share in %
NK	75-<100

- · VOC-CH 95.16 %
- · VOC-EU 659.5 g/l
- · Danish MAL Code 5-3
- · 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.

(Contd. on page 11)

Printing date: 13.03.2017 Version: 15 Revision: 13.03.2017

Trade name: Zettex Stainless Steel Spray

(Contd. of page 10)

H302 Harmful if swallowed.

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.

H336 May cause drowsiness or dizziness.

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.

· Department issuing SDS: Research & Development

· Contact:

· 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)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

* * Data compared to the previous version altered. *