

Printing date: 15.12.2022

*

Version number 10 (replaces version 9)

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1.1. Droduct identifier	
1.1 Product identifier	
Trade name: <u>Thinner for silver conducting lacquer</u> Verdünner für Silberleitlack	
Article number: 86943300	
1.2 Relevant identified uses of the substance or mixture and uses advised against Not approved for private consumers.	
A pplication of the substance / the mixture Cleaning material/ Detergent Thinner, Diluent	
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Heimerle + Meule GmbH Dennigstrasse 16 D-75179 Pforzheim	
Telefon +49 (0) 7231 940-0 Telefax +49 (0) 7231 940-2199 www.heimerle-meule.com	
Further information obtainable from:	
Abteilung BASU - Bau/Arbeitssicherheit/Umwelt Department BASU - Construction / Occupational Safety / Environment sds@heimerle-meule.com	
IATA - 24h Emergency Contact - IATA - 24h Emergency Contact - (Dangerous goods emergency number) +49 172 739 6970 1.4 Emergency telephone number:	
DEUTSCHLAND - GERMANY: Vergiftungs-Informations-Zentrale Freiburg, ++49 761 19240 (24 h) (Poisoning Information Center) GREAT BRITAIN:	
National Poisons Information Service +44 121 507 4123 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 - In Scotland: NHS 24 - dial 111 IRELAND	
+353 1 809 2166 (7 Days 8 am -10 pm) Healthcare Professionals: +353 1 809 2566 ITALY:	
Istituto Superiore di Sanità (ISS) +3906499906140 Centro Antiveleni	
Bergamo: +39 800 883300 Firenze +39 055 794 7819 Milano: +39 055 794 7819	
Roma +39 06 68593726 Roma +39 06 49978000 Roma +39 06 3954343	
<u>KROATIA - REPUBLIKA HRVATSKA:</u> (+385) 01 2348 342	
<u>ESTLAND - ESTONIA:</u> Tervisemeti Mürgistusteabekeskuse National (24/7): 16662	
(+372) 7943 794	



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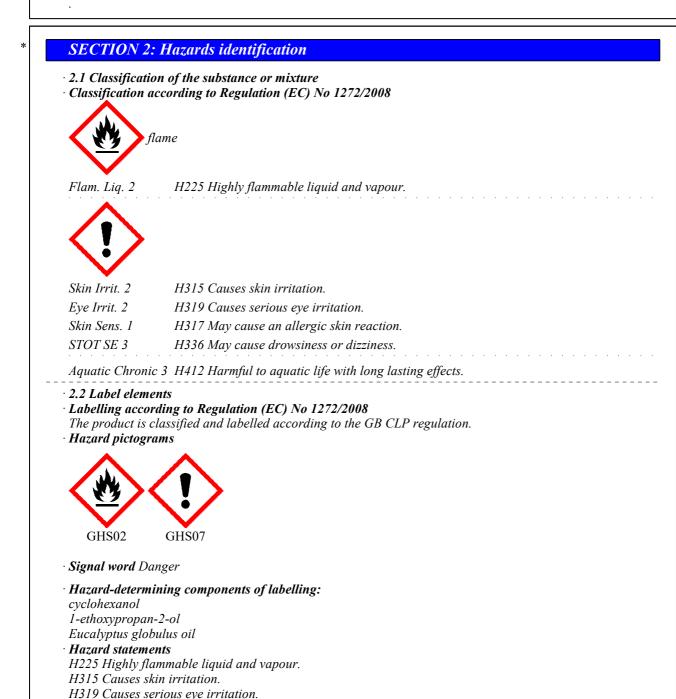
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H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. (Contd. of page 1)

(Contd. on page 3)

GB

<u>LETTLAND - LATVIA:</u> Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs, (24h) 112 (24h) +371 67042473 <u>LITAUEN - LIETUVOS RESPUBLIKA:</u> Poison Information Bureau (24/7), Tel.: +8 5 236 20 52 Apsinuodijimų informacijos biuras





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	(Contd. of page 2)
H412 Harm	ful to aquatic life with long lasting effects.
Precautiona	iry statements
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P303+P361	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other he	nzards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components / Information on ingredients:		
CAS: 52125-53-8 EINECS: 216-374-5 Index number: 603-177-00-8	<i>1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether</i> Flam. Liq. 3, H226 STOT SE 3, H336	50-<100%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000 Reg.nr.: 01-2119457610-43	ethanol; ethyl alcohol; Alcohol; Ethyl hydroxide; Methyl carbinol Flam. Liq. 2, H225 Eye Irrit. 2, H319	10-<20%
CAS: 108-93-0 EINECS: 203-630-6 Index number: 603-009-00-3 RTECS: GV 7875000	cyclohexanol; Hexahydrophenol; Hexalin Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	5-<10%
CAS: 84625-32-1	Eucalyptus globulus oil; Dinkum oil; Eucalyptus absolute; Eucalyptus bioabsolute; Eucalyptus globulus extract; Eucalyptus globulus Labile Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	5-<10%

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

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Do not leave affected persons unattended. Immediately remove any clothing soiled by the product. Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

Involve doctor immediately after a accident or unwell

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• After inhalation:

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- Supply fresh air and to be sure call for a doctor.
- 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.
- *If skin irritation continues, consult a doctor.*
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing:
- *Rinse out mouth and then drink plenty of water.*
- Drink plenty of water and provide fresh air. Call for a doctor immediately.
- A person vomiting while laying on their back should be turned onto their side.
- 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:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
- · 5.3 Advice for firefighters
- Protective equipment:



Wear self-contained respiratory protective device.

· Additional information

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.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Only handle and refill product in closed systems. · 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. 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: Send for recovery or disposal in suitable receptacles. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. · 6.4 Reference to other sections Ignition source distance See Section 7 for information on safe handling.

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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. Use only in well ventilated areas. Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. he usual precautionary measures are to be adhered to when handling chemicals. Prevent formation of aerosols. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. • 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: Store in a cool location. Observe official regulations on storing packagings. Observe official regulations on storing packagings. Prevent any seepage into the ground. · Information about storage in one common storage facility: Store away from flammable substances. Do not store together with materials which also support fire Store away from foodstuffs. • Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Store under lock and key and out of the reach of children. · Storage class: 3 • 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters		
· Ingredients with limit values that require monitoring at the workplace:		
CAS: 64-17-5 ethand	ol	
WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm	
AGW (Germany)	Long-term value: 380 mg/m ³ , 200 ppm 4(II);DFG, Y	
CAS: 108-93-0 cyclo	bhexanol	
WEL (Great Britain)	Long-term value: 208 mg/m ³ , 50 ppm	
MAK (Germany)	vgl. Abschn.IIb	
· Regulatory informat	tion	
WEL (Great Britain):	: EH40/2020	
AGW (Germany): TR	RGS 900	
MAK (Germany): MA	4K- und BAT-Liste	
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(Contd. of page 5) • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Appropriate engineering controls No further data; see item 7. · Individual protection measures, such as personal protective equipment • General protective and hygienic measures: Do not eat, drink, smoke or sniff while working. Apply solvent resistant skin cream before starting work. The usual precautionary measures are to be adhered to when handling chemicals. 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. According to EC Directive 89/686/EEC · Respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory protective device only when aerosol or mist is formed. Short term filter device: 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. Beware: Filter masks provide protection for a short period of time only. They should only be used in exceptional cases, that is if a small amount of the substance has spilled out or in order to fight spillages and fire. according EN 14387 according to EN 143 · Recommended filter device for short term use: Combination filter A-P2 · Hand protection Solvent resistant gloves Check protective gloves prior to each use for their proper condition. Protective gloves according to EN 374 To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. Sensibilisation by the components in the glove materials is possible. Check the permeability prior to each anewed use of the glove. 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 Prior to working with gloves the rubbing in with tanniferous skin-protecting agents for the avoidance of skin softening due to perspiration is recommended. · Material of gloves Butyl rubber, BR *Recommended thickness of the material:* ≥ 0.7 *mm* · Penetration time of glove material For the mixture of chemicals mentioned below the penetration time has to be at least 120 - 240 minutes (Permeation according to EN 16523-1:2015: Level 3). (Contd. on page 7) GB



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(Contd. of page 6) The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 3).

- *Value for the permeation: Level* ≤ 3
- *Not suitable are gloves made of the following materials: Nitrile rubber, NBR Natural rubber, NR Leather gloves*
- Strong material gloves
- · Eye/face protection



Tightly sealed goggles

according to EN 166 • **Body protection:** Protective work clothing

SECTION 9: Physical and chemical prop	perties	
9.1 Information on basic physical and chemical p	properties	
General Information	-	
Physical state	Fluid	
Colour:	Colourless	
Odour:	Solvent-like	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling		
range	78°C (172.4°F)	
Flammability	Highly flammable.	
Lower and upper explosion limit		
Lower:	1.3 Vol %	
Upper:	15 Vol %	
Flash point:	< 23°C (< 73.4°F)	
Decomposition temperature:	Not determined.	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20°C (68°F):	59 hPa (44.3 mm Hg)	
Density and/or relative density		
Density at 20°C (68°F):	0.9 g/cm ³ (7.51 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
		(Contd. on page



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9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of heal	th and
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard of	classes
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

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
- Reacts with strong oxidising agents.

Reacts with acids, alkalis and oxidising agents.

- 10.4 Conditions to avoid No further relevant information available.
- \cdot **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 hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 15–30 mg/l

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(Contd. of page 8) CAS: 64-17-5 ethanol Oral LD50 7,060 mg/kg (rat) Inhalative LC50/4 h 20,000 mg/l (rat) CAS: 108-93-0 cyclohexanol Oral LD50 2,060 mg/kg (rat) Inhalative LC50/4 h 1.5 mg/l (ATE) · Skin corrosion/irritation Causes skin irritation. · Serious eye damage/irritation Causes serious eye irritation. · Respiratory or skin sensitisation May cause an allergic skin reaction. · STOT-single exposure May cause drowsiness or dizziness. • 11.2 Information on other hazards · Endocrine disrupting properties None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 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.
- 12.5 Results of PBT and vPvB assessment Not applicable.
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties

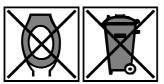
The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- **Remark:** Harmful to fish
- 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. Harmful to aquatic organisms

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.

Contact manufacturer for recycling information.

· Waste disposal key:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packaging which is uncleaned or soiled with product remains is to be treated like the product itself Packaging free of product remains is to be supplied refuse for recycling. Only if no adequate collecting system is available, they may be disposed of through the domestic rubbish

· Recommended cleansing agents: Alcohol

14.1 UN number or ID number ADR, IMDG, IATA	UN1993
	0111775
14.2 UN proper shipping name ADR	UN1993 FLAMMABLE LIQUID, N.O.S. (ETHAN (ETHYL ALCOHOL), 1-ethoxypropan-2-ol), spec provision 640D
IMDG	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETH ALCOHOL), 1-ethoxypropan-2-ol)
IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL, ethoxypropan-2-ol)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	Π
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	<i>F-E,<u>S-E</u> B</i>
EMS Number: Stowage Category	B
EMS Number:	B
EMS Number: Stowage Category 14.7 Maritime transport in bulk according to IM	<i>B</i> — — — — — — — — — — — — — — — — — — —
EMS Number: Stowage Category 14.7 Maritime transport in bulk according to IM instruments	<i>B</i> — — — — — — — — — — — — — — — — — — —
EMS Number: Stowage Category 14.7 Maritime transport in bulk according to IM instruments Transport/Additional information: ADR Limited quantities (LQ)	B 10 Not applicable. 1L
EMS Number: Stowage Category 14.7 Maritime transport in bulk according to IM instruments Transport/Additional information: ADR	B IO Not applicable. IL Code: E2
EMS Number: Stowage Category 14.7 Maritime transport in bulk according to IM instruments Transport/Additional information: ADR Limited quantities (LQ)	B 10 Not applicable. 1L



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·IMDG	
Limited quantities (LQ)	1L
\cdot Excepted quantities ($\widetilde{E}Q$)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
ΙΑΤΑ	
Remarks:	
	24h emergency contact -
	(Dangerous goods emergency number)
	+49 172 739 6970
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANO (ETHYL ALCOHOL), 1-ETHOXYPROPAN-2-OL), 3, II

SECTION 15: Regulatory information

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

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

· GADSL - Global Automotive Declarable Substance List

None of the ingredients is listed.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · National regulations:

• Technical instructions (air):

Class	Share in %
NK	85.0

- · Waterhazard class:
- · Other regulations, limitations and prohibitive regulations -
- 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.

· Reasons for revise

If necessary, this saftey data sheet can revised according to legal guidelines.

Our current version for your reference is available on our website

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· Relevant phrases

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H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. 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.

• Department issuing SDS:

Abteilung BASU - Bau/Arbeitssicherheit/Umwelt Department BASU - Construction / Occupational Safety / Environment

sds@heimerle-meule.com

· Contact:

Herr Thomas Knuth thomas.knuth@heimerle-meule.com sds@heimerle-meule.com · 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 Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) AwSV: Ordinance on facilities for handling water-polluting substances (German regulation). TRGS: Technical rules for hazardous substances (German regulation) ADR: Accord relatif au transport international 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 LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 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 Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • * Data compared to the previous version altered.