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	Kevision.11.01.20.
SECTION 1: Identification of the substance/mixtur	re and of the company/undertaking
· 1.1 Product identifier	
 Trade name: <u>Metaflux 70-15 RAPID CLEANER</u> UFI: 9TD0-K0M5-N00M-D9YC 1.2 Relevant identified uses of the substance or mixture and u No further relevant information available. Application of the substance / the mixture Cleaning agent/ Cleaner Solvent Cleaner 	uses advised against
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Techno Service GmbH Detmolder Strasse 515 D-33605 Bielefeld Germany +49 521 924440 info@metaflux.de www.metaflux.de Further information obtainable from: Sales Department +49 521 92444-0 1.4 Emergency telephone number: Central Phone Number +49 (0) 70024112112 or +1872588823 	71 (TSF) 24h
SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture	

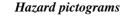
· Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachmend (Regulation (EC) 1272/2008, Annex I, 1.3.3).

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





• Signal word Danger

Hazard-determining components of labelling: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane Acetone
Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. (Contd. on page 2)

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	(Contd. of page 1)
· Precautionary s	tatements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}C/122$ $^{\circ}F$.
P501	Dispose of contents / container as special waste.
· Additional infor	mation:
Contains Orang	e, süss, Extrakt. May produce an allergic reaction.
· 2.3 Other hazar	ds
· Results of PBT	and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Active substance with propellant

· Dangerous components:		
CAS: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane I flam. Liq. 2, H225; I flaw Asp. Tox. 1, H304; Aquatic Chronic 2, H411; I Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
	Acetone 🚸 Flam. Liq. 2, H225; 🐠 Eye Irrit. 2, H319; STOT SE 3, H336	≥10-<15%
1	propane 📀 Flam. Gas 1, H220; Press. Gas (Liq.), H280	10-25%
EINECS: 232-433-8	Orange, sweet, extract Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	<i>≥</i> 0.1-<0.25%
· Regulation (EC) No 648/200	4 on detergents / Labelling for contents	
aliphatic hydrocarbons		≥30%

perfumes (LIMONENE, CITRAL)

• Additional information:

EC-Numbers' beginning with "9" are numbers given by ECHA for the purpose of registration according REACH. Eventually mentioned CAS-numbers valid for countries which are not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents. 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:

Take affected persons out into the fresh air. Do not leave affected persons unattended.

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• After inhalation:

Supply fresh air; consult doctor in case of complaints.

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. If symptoms persist, consult a doctor.
- After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet

· 5.2 Special hazards arising from the substance or mixture

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

- 5.3 Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

Mouth respiratory protective device.

Wear fully protective suit.

· Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
6.2 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.
6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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

• **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. Keep respiratory protective device available.

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(Contd. of page 3) 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:

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility: Store away from oxidising agents.

• Further information about storage conditions: Keep container tightly sealed.

• Recommended storage temperature: 15 - 35°C, max. 50°C

· Storage class: German storage class: 2B (Aerosols)

• 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:
 64742-49-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane

TWA (8H) (Great Britain) Long-term value: 1000 mg/m³, 250 ppm

67-64-1 Ac	etone			
WEL (Grea	EL (Great Britain) Short-term value: 3620 mg/m ³ , 1500 µ		рт	
··· (• · • · · · · · · · · · · · · · · · ·			Long-term value: 1210 mg/m ³ , 500 ppm	
IOELV (EU	<i>I</i>)	Long-term value: 1210 mg/m ³ , 500 pp	Long-term value: 1210 mg/m ³ , 500 ppm	
110-54-3 n	-hexane	1		
WEL (Grea	t Britain)	Long-term value: 72 mg/m ³ , 20 ppm		
IOELV (EU	Ŋ	Long-term value: 72 mg/m³, 20 ppm		
DNELs				
64742-49-0) Hydrocai	bons, C6-C7, n-alkanes, isoalkanes, cycloa	ulkanes, <5% n-hexane	
Oral	DNEL En	dverbraucher/ Consumers /Consommateur	699 mg/kg BW/ day (.)	
Dermal	DNEL - E	ndverbraucher/ Consumers /Consommateur	699 mg/kg BW /day (.)	
			699 mg/kg BW /day (hum)	
	DNEL Ar	beiter / Workers/ Travailleur	773 mg/kg BW /day (.)	
Inhalative	DNEL En	lverbraucher/ Consumers /Consommateur	608 mg /m3 (.)	
	DNEL Arl	peiter / Workers/ Travailleur	2,035 mg /m3 (.)	
67-64-1 Ac	etone		•	
Oral	DNEL En	dverbraucher/ Consumers /Consommateur	62 mg/kg BW/ day (.)	
Dermal	DNEL - E	ndverbraucher/ Consumers /Consommateur	62 mg/kg BW /day (.)	
	DNEL Ar	beiter / Workers/ Travailleur	186 mg/kg BW /day (.)	
Inhalative	DNEL En	dverbraucher/ Consumers /Consommateur	200 mg /m3 (.)	
	DNEL Arl	peiter / Workers/ Travailleur	1,210 mg /m3 (.)	
Additional	Occupatio	nal Exposure Limit Values for possible ha	zards during processing:	
110-82-7 су	yclohexan	e		
WEL (Grea	t Britain)	Short-term value: 1050 mg/m³, 300 ppm		
		Long-term value: 350 mg/m ³ , 100 ppm		
IOELV (EU	/	Long-term value: 700 mg/m ³ , 200 ppm		
Additional	informatio	on: The lists valid during the making were u	sed as basis.	

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	(Contd. of page
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 and skin.	
Respiratory protection:	
Not necessary if room is well-ventilated.	
Use suitable respiratory protective device in case of insufficient ventilation.	
Filter A	
Protection of hands:	
Protective gloves	
Material of gloves If contamination is possible, use gloves made of nitrile according El Penetration time of glove material > 480 min / 0.4 mm thickness	N 374
The exact break trough time has to be found out by the manufacturer of the protectiv	e gloves and has to b
observed.	e 510 res una nas 10 e
Eye protection:	
(Tightly sealed goggles)	

9.1 Information on basic physical and cl General Information	hemical properties
Appearance:	
Form:	Aerosol
Colour:	Colourless
Odour:	Fruit-like
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	· -44 °C
	value concers to propellant
Flash point:	-97 °C
	concerns to propellant
Flammability (solid, gas):	Not applicable.
Ignition temperature:	250 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Risk of bursting at temperatures $> 50^{\circ}$ C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors wit air.

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		(Contd. of page 5)
· Explosion limits:		
Lower:	0.8 Vol %	
Upper:	13 Vol %	
· Vapour pressure:	Not determined.	
· Pressure (20°C)	3 - 5 bar	
· Density at 20 •C:	0.703 g/cm ³	
Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	87.2 %	
VOC (EC)	99.90 %	
Solids content:	0.0 %	
•9.2 Other information	No further relevant information available.	
· Additional information	Vapors are heavier than air.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: Risk of bursting at temperatures >50°C.

· 10.3 Possibility of hazardous reactions

By use or incidental release the formation of explosive vapor/air mixtures is possible.

· 10.4 Conditions to avoid

Temperatures >50°*C*

Avoid the use in the near of ignition sources.

 \cdot 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

· Additional information: Stable for a storage time of min. 24 months

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values releva	nt for classification:
64742-49	-0 Hydrocarb	ons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	nhalative $LC50/4 h$ >25 mg/l (rat)	
67-64-1 Acetone		
Oral	LD50	5,800 mg/kg (rat)
<i>Dermal LD50</i> >7,400 mg/kg (rat)		
	•	(Contd. on page

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1.1.1.	1050/41	(Contd. of pag
Inhalative		76 mg/l (rat)
74-98-6 рг	-	
Inhalative	LC50/4 h	>20 mg/l (rat)
		n 1,443 mg/l (rat)
8028-48-6	Orange, swe	
Oral	LD50	4,400 mg/kg (rat)
Dermal	LD50	>2,200 mg/kg (rabbit)
Skin corro irritant Causes ski Serious ey low Causes sen Respiraton CMR effee Germ cell Carcinoge Reproduct	cts (carcinoge mutagenicity enicity Based of	itation
STOT-rep Aspiration	e drowsiness o eated exposu n hazard	or dizziness. re Based on available data, the classification criteria are not met. ed and enters airways.
STOT-rep Aspiration May be fai SECTIO	e drowsiness o eated exposur hazard tal if swallowe N 12: Ecol	re Based on available data, the classification criteria are not met.
STOT-rep Aspiration May be fau SECTIO 12.1 Toxic	e drowsiness of eated exposure tal if swallowe ON 12: Ecol city	re Based on available data, the classification criteria are not met. ed and enters airways.
STOT-rep Aspiration May be fau SECTIO 12.1 Toxic Aquatic to	e drowsiness of eated exposure tal if swallowe ON 12: Ecol city pxicity:	re Based on available data, the classification criteria are not met. ed and enters airways. ogical information
STOT-rep Aspiration May be fan SECTIO 12.1 Toxic Aquatic to 64742-49-	e drowsiness of eated exposure tal if swallowe DN 12: Ecol city exicity: 0 Hydrocarbo	re Based on available data, the classification criteria are not met. ed and enters airways. ogical information ons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane
<i>STOT-rep</i> <i>Aspiration</i> <i>May be fau</i> <i>SECTIO</i> <i>12.1 Toxic</i> <i>Aquatic to</i> <i>64742-49-</i> <i>LC 50 / 96</i>	e drowsiness of eated exposure tal if swallowe on 12: Ecol sity exicity: 0 Hydrocarbe 5 h <10 mg / b	re Based on available data, the classification criteria are not met. ed and enters airways. ogical information ons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane [(fis)
STOT-rep Aspiration May be fan SECTIO 12.1 Toxic Aquatic to 64742-49- LC 50 / 96 12.2 Persi 12.3 Bioac 12.4 Mobi Ecotoxica Remark: T Additional General m Water haz Do not al	e drowsiness of eated exposure hazard tal if swallowe N 12: Ecol N 12: Ecol Sity oricity: 0 Hydrocarbo of h <10 mg / I stence and de ccumulative p lity in soil No l effects: Toxic for fish l ecological in otes: ard class 1 (G	re Based on available data, the classification criteria are not met. ed and enters airways. ogical information ons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane (fis) rgradability No further relevant information available. otential No further relevant information available. further relevant information available.
STOT-rep Aspiration May be fan SECTIO 12.1 Toxic Aquatic to 64742-49- LC 50 / 96 12.2 Persi 12.3 Bioac 12.4 Mobi Ecotoxica Remark: T Additional General m Water haz Do not all system. Also poiso Toxic for a 12.5 Resul PBT: Not	e drowsiness of eated exposure hazard tal if swallowe on the swallowe on the swallowe on the swallowe on the swallowe on the swallowe of the s	re Based on available data, the classification criteria are not met. ed and enters airways. Fogical information Fogical information Forms, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane (fis) gradability No further relevant information available. formation available. further relevant information available. aformation: Ferman Regulation) (Self-assessment): slightly hazardous for water l product or large quantities of it to reach ground water, water course or sew and plankton in water bodies.
STOT-rep Aspiration May be fan SECTIO 12.1 Toxic Aquatic to 64742-49- LC 50 / 96 12.2 Persi 12.3 Bioac 12.4 Mobia Ecotoxica Remark: T Additional General n Water haz Do not all system. Also poiso Toxic for a 12.5 Resul PBT: Not vPvB: Not	e drowsiness of eated exposure hazard tal if swallowe on the swallowe on the swallowe on the swallowe on the swallowe on the swallowe of the s	re Based on available data, the classification criteria are not met. ed and enters airways. Togical information Togical information Toms, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane (fis) gradability No further relevant information available. otential No further relevant information available. further relevant information available. further relevant information available. further relevant information available. further relevant information available. aformation: German Regulation) (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or sew and plankton in water bodies. isms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

empty cans: material recycling

filled cans: remove in accordance with local regulations

(Contd. on page 8)

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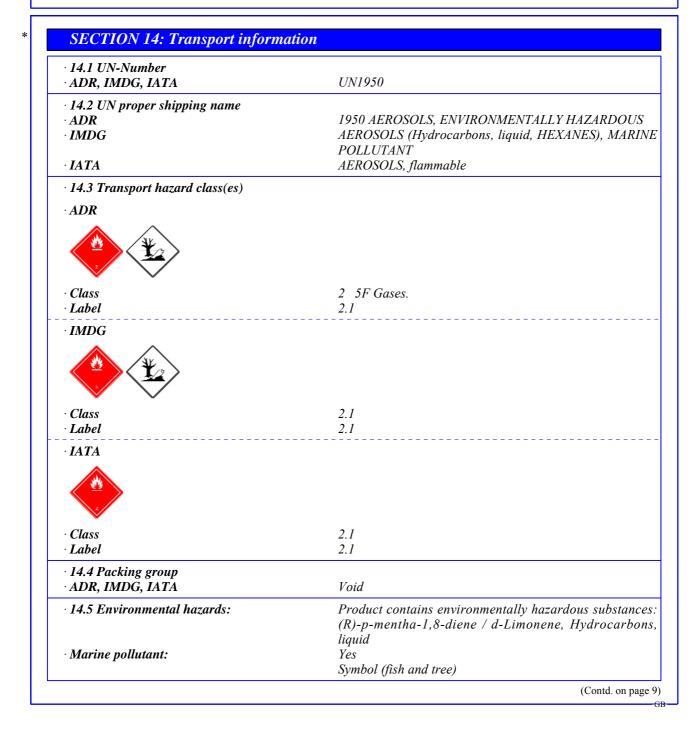
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	(Contd. of page 7)
Hand over	to hazardous waste disposers.
· European	waste catalogue
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 04*	other organic solvents, washing liquids and mother liquors

· Uncleaned packaging:

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



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	(Contd. of page
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Code Segregation 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 C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre Segregation as for class 9. Stow "separated from" class 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 Annex II of Marpol and the IBC Code	pf Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code Remarks:	1L Code: E0 Not permitted as Excepted Quantity 2 D Transportation as "LIMITED QUANTITIES" accordin 3.4 ADR is possible. Sole marking: Sign for "Limited Quantities" (rhombu with two black edges) Entry in the transportation document: Transportation according chapter 3.4 ADR Tunnel category "E" in case of a load of 8000 kg (rgro. weight) or more. Hazardous goods under the transport regulations liste above may be subject to special regulations. For detai please consult the relevant transport regulations
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALL HAZARDOUS

*

SECTION 15: Regulatory information

· 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

 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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· National regulations:

• Information about limitation of use:

Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
Ι	2.2
NK	84.3

· 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. 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. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. • Abbreviations and acronyms: 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) VOC: Volatile Organic Compounds (USA, EU) 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 (Liq.): Gases under pressure - Liquefied gas Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids - Category 3 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

• * Data compared to the previous version altered.

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