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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier · Trade name: MULTI 500 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 • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: A.M.P.E.R.E. SYSTEM 3 Rue Antoine Balard - P.A. du Vert Galant 95310 Saint-Ouen-l'Aumône - France Tel: +33 1 34 64 72 72 Fax: +33 1 30 37 55 17 E-mail: fds@amperesystem.com • Further information obtainable from: QSE Department/E-mail: fds@amperesystem.com • 1.4 Emergency telephone number: Tel: 0844 892 0111 - France : +33 1 45 42 59 59 (ORFILA) **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. GHS08 health hazard Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 STOT SE 3 H336 May cause drowsiness or dizziness. Classification according to Directive 67/548/EEC or Directive 1999/45/EC F+; Extremely flammable R12: Extremely flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic R52/53-66-67: environment. Repeated exposure may cause skin dryness or cracking. 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. At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurised container. Has a narcotising effect. (Contd. on page 2)

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(Contd. of page 1) **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 product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS07 GHS08 GHS02 · Signal word Danger · Hazard-determining components of labelling: Distillates (petroleum), solvent-dewaxed heavy paraffinic <0.1% Benzene Naphtha (petroleum), hydrotreated heavy Distillates (petroleum), hydrotreated light · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. H336 H304 May be fatal if swallowed and enters airways. · Precautionary statements If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 Pressurized container: Do not pierce or burn, even after use. P251 P260 Do not breathe spray. P211 Do not spray on an open flame or other ignition source. P280 Wear protective gloves / eye protection. P273 Avoid release to the environment. P271 Use only outdoors or in a well-ventilated area. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting. P331 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. P403 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Additional information: EUH066 Repeated exposure may cause skin dryness or cracking. 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:

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CAS: 64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic <0.1%	ontd. of page 10-<25%
EINECS: 265-169-7	Benzene	10 - 2570
	Xn R65	
	Asp. Tox. 1, H304	
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light	10-<25%
EC number: 926-141-6	Xn R65	
Reg.nr.: 01-2119456620-43	R66	
-	Asp. Tox. 1, H304	
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-<25%
EC number: 919-857-5	Xn R65	
Reg.nr.: 01-2119463258-33	R10-66-67	
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	
CAS: 106-97-8	butane (containing $< 0.1\%$ butadiene (203-450-8))	10-<25%
EINECS: 203-448-7	F+ R12	
	Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 74-98-6	propane	10-<25%
EINECS: 200-827-9	F+ R12	
Reg.nr.: 01-2119486944-21	Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom. Benzene<0.1%	1-<2.5%
EINECS: 265-199-0	Xn R65; Xi R37; N R51/53	
	R10-66-67	
CAR. 05 (2 (Flam. Liq. 3, H226; Asp. Tox. 1, H304	1 < 2 5 0/
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene Xn R20; Xi R36/37/38; N R51/53	1-<2.5%
EINEC3. 202-430-9	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	
CAS: 108-67-8	mesitylene	0.3-<1%
EINECS: 203-604-4	Xi R36/37/38; N R51/53	
	R10	
	Flam. Liq. 3, H226; Aquatic Chronic 2, H411; STOT SE 3, H335	
CAS: 9016-45-9	Nonylphenol polyglycol ether 1-7 EO	0.3-<1%
NLP: 500-024-6	Xn R21/22; Xi R38-41; N R51/53	
	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4,	
	H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 98-82-8	isopropylbenzene	0.1-<0.3%
EINECS: 202-704-5	Xn R65; Xi R37; N R51/53	
	R10	
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335	
CAS: 1330-20-7	xylene (mix)	0.1-<0.3%
EINECS: 215-535-7	Xn R20/21; Xi R38	5.1 .0.5
Reg.nr.: 01-2119488216-32	R10	
	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin	
	Irrit. 2, H315	

- Additional information:

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not induce vomiting; call for medical help immediately.

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- 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.
- 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.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

• 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. (Contd. on page 5)

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• **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.

		quire monitoring at the workplace:		
	butane (containing < 0.1%			
Lo	ort-term value: 1810 mg/m ³ , 7 ong-term value: 1450 mg/m ³ , 6 arc (if more than 0.1% of buta	500 ppm		
74-98-6	·	,		
OEL Sh	ort-term value: 3600 mg/m ³ , 2 ong-term value: 1800 mg/m ³ , 1			
95-63-6	1,2,4-trimethylbenzene			
WEL Lo	ong-term value: 125 mg/m ³ , 25 V	5 ppm		
108-67-8	mesitylene			
WEL Lo	ong-term value: 125 mg/m ³ , 25 V	5 ppm		
98-82-8 i	sopropylbenzene			
WEL Short-term value: 250 mg/m ³ , 50 ppm Long-term value: 125 mg/m ³ , 25 ppm Sk				
1330-20-	7 xylene (mix)			
Lo	WEL Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV			
DNELs				
	3-9 Naphtha (petroleum), hy	drotreated heavy		
Oral		125 mg/kg bw/day (Consumer)		
Dermal		125 mg/kg bw/day (Consumer)		
		208 mg/kg bw/day (Worker)		
Inhalativ	e DNEL Long term-systemic	900 mg/m3 (Consumer)		
		871 mg/m3 (Worker)		
Ingredie	nts with biological limit valu	les:		
0	7 xylene (mix)			
	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric ac	id		
Addition	al Occupational Exposure I	imit Values for possible hazards during processing:		
100-41-4	ethylbenzene			
WEL Sh Lc Sk	ort-term value: 552 mg/m ³ , 12 ong-term value: 441 mg/m ³ , 10	25 ppm 00 ppm		
108-88-3	toluene			
	ort-term value: 384 mg/m ³ , 10	00 ppm		
	ong-term value: 191 mg/m ³ , 50			

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• Additional information: The lists va	lid during the making were used as basis.	(Contd. of page 5
- 8.2 Exposure controls		
· Personal protective equipment:		
General protective and hygienic me		
Wash hands before breaks and at the		
Do not inhale gases / fumes / aerosols	3.	
Respiratory protection:	tion	
	tion use respiratory filter device. In case of intensiv	e of longer exposure
use self-contained respiratory protect Filter AX/P2	ive device.	
Protection of hands:		
Protective gloves		
Solvent resistant gloves		
	nsideration of the penetration times, rates of diffusion	on and the degradation
• Material of gloves Nitrile rubber, NI		
Penetration time of glove material		
	found out by the manufacturer of the protective glo	oves and has to be
observed.		
Eye protection:		
Tightly sealed goggles		
Body protection: Use protective suit		
SECTION 9: Physical and ch	emical properties	
9.1 Information on basic physical a	nd chemical properties	
General Information		
Appearance:		
Form:	Aerosol	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition	TT 1 / 1	
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	-44 °C	
Flash point:	-97 °C	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	> 200 °C	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive. However, formation ov vapour mixtures are possible.	of explosive air/
Eunlagian limita		
• Explosion limits:		

0.5 Vol %

Lower:

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Upper:	10.9 Vol %	
· Vapour pressure at 20 °C:	4 bar	
· Density at 20 °C:	0.737 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/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	67.3 %	
Solids content:	2.6 %	
9.2 Other information	No further relevant information available.	

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:

	values i cie		
64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic <0.1% Benzene			
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
Inhalative	LC50/4h	5.53 mg/l (rat)	
64742-47-8 Distillates (petroleum), hydrotreated light			
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
Inhalative	LC50(8h)	>5000 mg/m3 (rat)	
64742-48-	9 Naphtha	(petroleum), hydrotreated heavy	
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
Inhalative	LC50 (4h)	4951 mg/m3 (rat)	
64742-95-6 Solvent naphtha (petroleum), light arom. Benzene<0.1%			
Oral	LD50	>6800 mg/kg (rat)	
Dermal	LD50	>3400 mg/kg (rabbit)	
		(Contd. on page	

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Inhalative	LC50/4 h	>10.2 mg/l (rat)	
95-63-6 1,2,4-trimethylbenzene			
Oral	LD50	>3500 mg/kg (rat)	
Dermal	LD50	3160 mg/kg (rabbit)	
Inhalative	LC50	18 mg/L (rat)	
Primary irritant effect:			
• on the skin: No irritant effect.			

• on the eye: No irritating effect.

• Sensitisation: No sensitising effects known.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
64742-47-8 Distillates (petroleum), hydrotreated light		
EL0 (48h)	1000 mg/l (Daphnia magna)	
EL0(72h)	1000 mg/l (Pseudokirchneriella subcapitata)	
LL0(96h)	1000 mg/l (Oncorhynchus mykiss (96h))	
64742-48-9 Naphtha (petroleum), hydrotreated heavy		
EL0 (48h)	1000 mg/l (Daphnia magna)	
EL50 (72h)	>1000 mg/l (Pseudokirchneriella subcapitata)	
LL50 (96h)	>1000 mg/l (Oncorhynchus mykiss (96h))	
NOELR (72h)	100 mg/l (Pseudokirchneriella subcapitata)	
95-63-6 1,2,4-trimethylbenzene		
EC50	3.6 mg/l (Daphnia Magna 48h)	
LC50	7.72 mg/l (Pimephales promelas (96 h))	

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.

- · Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

Generally not hazardous for water

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.

· Uncleaned packaging:

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

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UN1950
UN1950 AEROSOLS
AEROSOLS
AEROSOLS, flammable
2 5F Gases.
2.1
2 5F
2.1
2.1
2.1
Void
No
Warning: Gases.
-
F-D,S-U
II of
Not applicable.
1L
Code: E0
Not permitted as Excepted Quantity
2
D
1L
Code: E0
Not permitted as Excepted Quantity
UN1950, AEROSOLS, 2.1
-

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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

· VOC-CH 67.24 %

• **VOC-EU** 495.8 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.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- 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.
- R12 Extremely flammable.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R21/22 Harmful in contact with skin and if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- 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:QSE Department

· Contact:fds@amperesystem.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)

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)

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DNEL: Derived No-Effect Level (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Flam. Gas 1: Flammable gases, Hazard Category 1	
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1	
Press. Gas C: Gases under pressure: Compressed gas	
Flam. Liq. 3: Flammable liquids, Hazard Category 3	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
Asp. Tox. 1: Aspiration hazard, Hazard Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	