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

· Product identifier

· Trade name: RESIN CLEANER

· Article number: 632200030 UFI: T5S5-T06J-D001-PG5H

- · Relevant identified uses of the substance or mixture and uses advised against -
- · Application of the substance / the mixture Cleaner solvent
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

A.M.P.E.R.E. SYSTEM

3 rue Antoine Balard - Z.I. du Vert Galant 95310 Saint-Ouen-I'Aumône - FRANCE

Tel: + 33 1 34 64 72 72 / Fax: +33 1 30 37 55 17

fds@amperesystem.com

• Emergency telephone number: UK: National Poisons Information Service - 0344 892 0111 Ireland: National Poisons Information Centre - Beaumont Hospital - PO Box 1297 Beaumont Road 9 Dublin: +353 1 809 2566 (Healthcare professionals-24/7) - +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

· Classification of the substance or mixture



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



Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· Label elements

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms





GHS02

· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Reaction mass of ethylbenzene and xylene

propan-2-ol

· Hazard statements

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

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

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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 mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	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.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional inform	nation:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- ·Mixtures
- · Description: Cleansing agent

· Dangerous components:		
EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	75-<100%
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336, EUH066	
CAS: 67-63-0	propan-2-ol	10-<25%
EINECS: 200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119457558-25		
EC number: 905-588-0	Reaction mass of ethylbenzene and xylene	2.5-<10%
Reg.nr.: 01-2119488216-32 01-2119486136-34	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 124-38-9	Carbon dioxide	2.5-<10%
EINECS: 204-696-9	Press. Gas (Liq.), H280	

· Ingredients according to detergents guidline 648/2004/EC aliphatic hydrocarbons ≥30% aromatic hydrocarbons <5%

· Additional information:

Aerosols and containers fitted with a solid atomizer containing substances or mixtures classified as hazardous by aspiration shall not be labelled for that hazard.

The text of the hazard statements mentioned here can be found in chapter 16.

SECTION 4: First aid measures

- · 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.

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- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 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
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 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

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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.

- · 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:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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· Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· Control parameters

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

124-38-9 Carbon dioxide

WEL Short-term value: 27400 mg/m³, 15000 ppm Long-term value: 9150 mg/m³, 5000 ppm

·DNELs

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, 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)

67-63-0 propan-2-ol

Oral	DNEL Long term-systemic	26 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	319 mg/kg bw/day (Consumer)
		888 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	89 mg/m3 (Consumer)
		500 mg/m3 (Worker)

DNEL Long term-systemic 1.6 mg/kg bw/day (Consumer)

Reaction mass of ethylbenzene and xylene

Dermal	DNEL Long term-systemic	108 mg/kg bw/day (Consumer)
		180 mg/kg bw/day (Worker)
Inhalative	DNEL Aigu-systémique	174 mg/m3 (Consumer)
		289 mg/m3 (Worker)
	DNEL Acute-local	289 mg/m3 (Worker)
	DNEL Long term-systemic	14.8 mg/m3 (Consumer)
		77 mg/m3 (Worker)
	DNEL Long term-local	174 mg/m3 (Consumer)
		221 mg/m3 (Worker)

·PNECs

Oral

Reaction mass of ethylbenzene and xylene

PNEC Freshwater	0.327 mg/l (Undefind)
PNEC Marine water	0.327 mg/l (Undefind)
PNEC Freshwater sediment	12.64 mg/l(dry weight) (Undefind)
PNEC Soil	2.31 mg/kg (Undefind)
PNEC Sewage Treatment Plant	

PNEC Marine water sediment | 12.64 mg/l(dry weight) (Undefind)

• Additional information: The lists valid during the making were used as basis.

· Exposure controls

· Appropriate engineering controls No further data; see section 7.

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· Individual protection measures, such as personal protective equipment

\cdot General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

General ventilation

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A2/P2

· Hand protection



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 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: $\geq 0.5 \text{ mm}$

· Penetration time of glove material

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

· Eye/face protection

Safety glasses



Tightly sealed goggles

· Body protection:

Use protective suit. (EN-13034/6)

Full skin covering antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).

• Environmental exposure controls Use a suitable container to prevent environmental contamination.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

· General Information

· Physical state Aerosol

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

range 82 °C (67-63-0 propan-2-ol)

· Flammability Not applicable.

· Lower and upper explosion limit

 · Lower:
 0.6 Vol %

 · Upper:
 12 Vol %

 · Flash point:
 13 °C

 · Ignition Temperature
 270 °C

• pH Mixture is non-polar/aprotic.

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Not determined.

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· Viscosity:

· Kinematic viscosity

· Kinematic viscosity

Not determined · Dynamic:

·Solubility

· water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure at 20 °C: 5000 hPa · Vapor Pressure at 50 °C: <8000 hPa

· Density and/or relative density

Density at 20 °C: 0.794 g/cm3 Relative density Not determined. · Vapour density Not determined.

· Other information

· Appearance:

· Form: Aerosol

· Important information on protection of health and

environment, and on safety.

Product is not selfigniting. · Ignition temperature:

Product is not explosive. However, formation of · Explosive properties:

explosive air/vapour mixtures are possible.

· Solvent content: 97.5 % · Organic solvents:

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard classes

· Explosives Void · Flammable gases Void

·Aerosols Extremely flammable aerosol. Pressurised container:

Void

Void Void

May burst if heated.

· Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void

SECTION 10: Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability

· Corrosive to metals

· Desensitised explosives

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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· Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics			
Oral	LD50	>5000 mg/kg (Rat)	
Dermal	LD50	>5000 mg/kg (Rabbit)	
Inhalative	LC50 (4h)	4951 mg/m3 (Rat)	
67-63-0 pr	67-63-0 propan-2-ol		
Oral	LD50	5840 mg/kg (Rat) (Acute Oral Toxicity)	
Dermal	LD50	13900 mg/kg (Rabbit) (Acute Dermal Toxicity)	
Inhalative	LC50 (4h)	>25 mg/l (Rat)	
	LC50	>25 mg/L (Rat) (Acute Inhalation Toxicity)	
Reaction r	Reaction mass of ethylbenzene and xylene		
Oral	LD50	3523 mg/kg (Rat)	
Dermal	LD50	12126 mg/kg (Rabbit)	
Inhalative	LC50 (4h)	29000 mg/l (Rat)	

- · Serious eye damage/irritation Causes serious eye irritation.
- · STOT-single exposure May cause drowsiness or dizziness.
- · Aspiration hazard May be fatal if swallowed and enters airways.
- · Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· Toxicity

· Aquatic toxicity:			
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)	EL50 (72h) >1000 mg/l (Pseudokirchneriella subcapitata)		
LL50 (96h)	LL50 (96h) >1000 mg/l (Onc)		
67-63-0 propan-	2-ol		
EC50	>100 mg/l (Bacteria)		
LOEC (8 days)	1000 mg/l (Algae)		
LC50 (96h)	9640 mg/l (Pimephales promelas)		
LC50 (24h)	LC50 (24h) 9714 mg/l (Daphnia magna)		
Reaction mass o	Reaction mass of ethylbenzene and xylene		
NOEC	1.3 mg/l (Fish)		
NOEC (7 days)	0.96 mg/l (Daphnia magna)		
NOEC (72h)	0.44 mg/l (Algae)		
NOEC (28 days)	16 mg/l (Bacteria)		
LC50 (96h)	8.9-16.4 mg/l (Pimephales promelas)		
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Safety data sheet according to 1907/2006/EC, Article 31

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EC50 (48h) 3.2-9.5 mg/l (Daphnia magna)

· Persistence and degradability Not easily biodegradable

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- **Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- · 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.

SECTION 1	4: Transport	information
------------------	--------------	-------------

- · UN number or ID number
- · ADR, ADN, IMDG, IATA UN1950
- · UN proper shipping name
- · ADR, ADN UN1950 AEROSOLS
- · IMDG AEROSOLS
- · IATA AEROSOLS, flammable
- · Transport hazard class(es)
- · ADR



- · Class 2 5F Gases.
- · Label 2.1
- \cdot ADN
- · ADN/R Class: 2 5F
- · IMDG, IATA



- · Class 2.1 Gases.
- · Label 2.1
- · Packing group
- · ADR, IMDG, IATA Void

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	(Contd. of page
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Gases.
Hazard identification number (Kemler	,
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litro
	Category A. For AEROSOLS with a capacity above 1 litre
	Category B. For WASTE AEROSOLS: Category C, Clear
	of living quarters.
Segregation Code	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.
35 11 11 11	
Maritime transport in bulk according instruments	Not applicable.
	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

SECTION 15: Regulatory information

- · 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 P3b FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t
- · National regulations:
- · Breakdown regulations:

Class	Share in %
NK	75-<100

- · VOC-CH 97.50 %
- · VOC-EU 774.2 g/l
- · Danish MAL Code 3-1
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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

- 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.
- 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.
- H373 May cause damage to organs through prolonged or repeated exposure.

EUH066 Repeated exposure may cause skin dryness or cracking.

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

Physical and chemical properties: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

· Abbreviations and acronyms:

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

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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

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

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

* * Data compared to the previous version altered. *

DISCLAIMER

The information contained in this sheet comes from reliable sources. It has been drawn up based on our knowledge at the time of the most recent update, as indicated. This information is intended as an aid to the user and should not be considered as a guarantee.

Conditions or methods of handling, storage, use or disposal of the product are outside our control, and we may not be held responsible for any loss, damage or expenses incurred as a result of, or in connection with, the latter.

All substances or mixtures can present unknown dangers and must be used with caution. We cannot guarantee that all dangers have been set out in an exhaustive manner.

This sheet has been drawn up for, and must be used for, this product only. If the product is used as a component in another product, the information given with it may not be applicable.

This sheet does not under any circumstances exempt the user from complying with all laws, regulations and administrative requirements related to the product, health and safety, and the protection of human health and the environment.

GB -