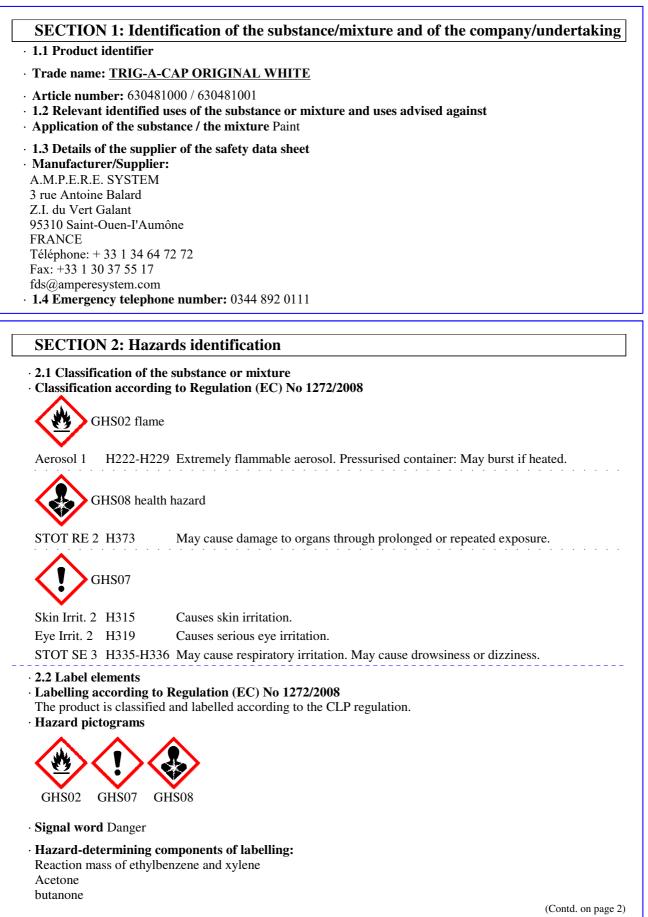
# Safety data sheet

according to 1907/2006/EC, Article 31

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Hanand ata	(Contd. of page 1)
· Hazard sta	
	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
	May cause respiratory irritation. May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
	ary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
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.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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.
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.
2.3 Other	nazards
Results of	PBT and vPvB assessment
• <b>PBT:</b> Not a	
vPvB: Not	

# **SECTION 3: Composition/information on ingredients**

## · 3.2 Mixtures

\*

· Description: Active substance with propellant

<ul> <li>Dangerous components:</li> </ul>		
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 (Comp.), H280	10-<25%
	Reaction mass of ethylbenzene and xylene 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	10-<25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<10%
CAS: 61789-72-8	Benzylalkyl quaternair ammoniumchloride Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315	≥0.1-<0.25%
<ul> <li>Additional information:</li> </ul>		

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#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Generally the product does not irritate the skin.
- · 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.
- · 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:
- 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**

- $\cdot$  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.
- 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.
   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.
- Information about fire and explosion protection: Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

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(Contd. of page 3) 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:

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- **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.
- 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: 106-97-8 butane (containing < 0.1% butadiene (203-450-8)) WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm Long-term value: 1450 mg/m3, 600 ppm Carc (if more than 0.1% of buta-1.3-diene) 67-64-1 Acetone WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m3, 500 ppm 78-93-3 butanone WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppm Long-term value: 600 mg/m<sup>3</sup>, 200 ppm Sk, BMGV · DNELs Reaction mass of ethylbenzene and xylene DNEL Long term-systemic 1.6 mg/kg bw/day (Consumer) Oral Dermal DNEL Long term-systemic 108 mg/kg bw/day (Consumer) 180 mg/kg bw/day (Worker) Inhalative DNEL Acute-local 289 mg/m3 (Worker) DNEL Long term-systemic 14.8 mg/m3 (Consumer) 77 mg/m3 (Worker) 67-64-1 Acetone Oral DNEL Long term-systemic 62 mg/kg bw/day (Consumer) Dermal DNEL Long term-systemic 62 mg/kg bw/day (Consumer) 186 mg/kg bw/day (Worker) Inhalative DNEL Acute-local 2420 mg/m3 (Worker) DNEL Long term-systemic 200 mg/m3 (Consumer) 1210 mg/m3 (Worker) 78-93-3 butanone Oral DNEL Long term-systemic 31 mg/kg bw/day (Consumer) Dermal DNEL Long term-systemic 412 mg/kg bw/day (Consumer) 1161 mg/kg bw/day (Worker)

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Inhalative DNEL Long term-sys	
	600 mg/m3 (Worker)
PNECs	
Reaction mass of ethylbenzene	•
	0.327 mg/l (Undefind)
	0.327 mg/l (Undefind)
	12.46 mg/l(dry weight) (Undefind)
	2.31 ug/kg (Undefind)
PNEC Sewage Treatment Plant	
PNEC Marine water sediment	12.46 mg/l(dry weight) (Undefind)
67-64-1 Acetone	
	1.06 mg/l (Undefind)
	30.4 mg/l(dry weight) (Undefind)
	29.5 ug/kg (Undefind)
PNEC Marine water sediment	3.04 mg/l(dry weight) (Undefind)
Ingredients with biological lim	it values:
78-93-3 butanone	
BMGV 70 µmol/L	
Medium: urine Sampling time: post shi	ft
Parameter: butan-2-one	
	sts valid during the making were used as basis.
Filter A2/P2 <b>Protection of hands:</b> The glove material has to be imp Due to missing tests no recommon the chemical mixture.	erages and feed. nd contaminated clothing t the end of work. rosols.
Solvent resistant gloves	n consideration of the penetration times, rates of diffusion and the degradation

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#### · 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 chemi	cal properties
· 9.1 Information on basic physical and cl	hemical properties
· General Information	
· Appearance:	
Form:	Aerosol
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	:-44.5 °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:	13 Vol %
· Vapour pressure at 20 °C:	4 hPa
· Density at 20 °C:	0.759 g/cm <sup>3</sup>
· 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.

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		(Contd. of page 6)
<ul> <li>Solvent content: Organic solvents:</li> </ul>	79.4 %	
Solids content:	20.4 %	

### **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.

 $\cdot$  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 Based on available data, the classification criteria are not met.

LD/LC50	values	relevant	for	classification:	

Reaction	mass of eth	ylbenzene and xylene
Oral	LD50	4000 mg/kg (Rat)
Dermal	LD50	12126 mg/kg (Rabbit)
67-64-1 A	cetone	
Oral	LD50	5800 mg/kg (Rat)
Dermal	LD50	7800 mg/kg (Rabbit)
Inhalative	LC50 (4h)	>20 mg/l (Rat)
78-93-3 bi	utanone	
Oral	LD50	>2193 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rabbit)
		5000 mg/kg (Rabbit)
· Primary i	rritant effe	ct:
Skin corr	ocion/irrita	tion

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- $\cdot$  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.
- · STOT-single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

· STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

• Aspiration hazard Based on available data, the classification criteria are not met.

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# **SECTION 12: Ecological information**

· 12.1 Toxicity	· 12.1 Toxicity		
· Aquatic toxicity	:		
Reaction mass o	f 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)		
EC50 (48h)	3.2-9.5 mg/l (Daphnia magna)		
67-64-1 Acetone			
EC50	8800 mg/l (Daphnia magna)		
	8300 mg/l (Fish)		
78-93-3 butanon	ie in the second se		
LC50 (96h)	2993 mg/l (Pimephales promelas)		
EC50 (48h)	308 mg/l (Daphnia magna)		
	and degradability No further relevant information available.		
	lative potential No further relevant information available.		
ť	• 12.4 Mobility in soil No further relevant information available.		
	gical information:		
<ul> <li>General notes:</li> </ul>			

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.

· 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.

#### · European waste catalogue

HP3 Flammable

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· Uncleaned packaging:

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

14.1 UN-Number		
ADR, ADN, IMDG, IATA	UN1950	
14.2 UN proper shipping name		
ADR, ADN	UN1950 AEROSOLS	
IMDG	AEROSOLS	

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T . T .	(Contd. of pag
ΙΑΤΑ	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
ADN	
ADN/R Class:	2 5F
IMDG, IATA	
Class	2.1 2.1
Label	2.1
14.4 Packing group ADR, IMDG, IATA	Void
	Void
14.5 Environmental hazards: Marine pollutant:	No
-	Warning: Gases.
14.6 Special precautions for user Hazard identification number (Kemler code):	
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
Second diam Carls	SW2 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.
14.7 Transport in bulk according to Annex II o Marpol and the IBC Code	f Not applicable.
Transport/Additional information:	approacte.
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)	
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

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· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

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

Class Share in %

NK 75-<100

- · VOC-CH 79.36 %
- · VOC-EU 602.4 g/l
- · Danish MAL Code 4-3
- 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.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- 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.
- H400 Very toxic to aquatic life.

#### · Department issuing SDS: Research & Development

- · Contact: Ing. J. Sleumer
- 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)
   MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
   DNEL: Derived No-Effect Concentration (REACH)
   PNEC: Predicted No-Effect Concentration (REACH)
   LC50: Lethal concentration, 50 percent
   LD50: Lethal dose, 50 percent
   PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity - dermal – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
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
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
• * Data compared to the previous version altered. *

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