# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

# SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name : TRIG-A-CAP EXTRA marking paint

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.3. Details of the supplier of the safety data sheet

Registered company name : A.M.P.E.R.E. SYSTEM . Address : 3 rue Antoine Balard - Z.I. du Vert Galant.95310.Saint-Ouen-l'Aumône .FRANCE. Telephone : +33 1 34 64 72 72. Fax : +33 1 30 37 55 17. fds@amperesystem.com

### 1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

# SECTION 2 : HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

## In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8). This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

### In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Extremely flammable (F+, R 12).

Vapours may cause drowsiness and dizziness (R 67).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

### 2.2. Label elements

Mixture for aerosol application.

# In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



Signal Word :	
DANGER	
Hazard statements :	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
Precautionary statements	- General :
P102	Keep out of reach of children.
Precautionary statements	- Prevention :
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.
Precautionary statements	- Storage :
P410 + P412	Protect from sunlight. Do no expose to temperatures exceeding 50 oC/122oF.
Other information :	
	Reserved for professional users.
	Do not use in a confined space.
	Not to be used for any usage other than those specified.

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European

CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

# SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

# Composition :

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 74-98-6	GHS02	F+	[1]	10 <= x % < 25
EC: 200-827-9	Dgr	F+;R12		
REACH:	Flam. Gas 1, H220			
01-9112486944-21	Press. Gas, H280			
PROPANE				
INDEX: 601-004-00-0	GHS02, GHS04	F+	С	10 <= x % < 25
CAS: 106-97-8	Dgr	F+;R12	[1]	
EC: 203-448-7	Flam. Gas 1, H220			
REACH:				
01-2119474691-32				
BUTANE				
CAS: 75-28-5	GHS02	F+	[1]	2.5 <= x % < 10
EC: 200-857-2	Dgr	F+;R12		
REACH:	Flam. Gas 1, H220			
01-2119485395-27	Press. Gas, H280			
ISOBUTANE (CONTENANT				
MOINS DE 0.1% DE				
BUTADIENE)				
CAS: 64742-48-9	GHS07, GHS08, GHS02	Xn		2.5 <= x % < 10
EC: 265-150-3	Dgr	Xn;R65		
REACH:	Flam. Liq. 3, H226	R10		
01-2119463258-33	Asp. Tox. 1, H304	R66-R67		
	STOT SE 3, H336			
DEAROMATIZED	EUH:066			
HYDROCARBONS				
EC: 927-241-2	GHS07, GHS08, GHS02	Xn		2.5 <= x % < 10
REACH:	Dgr	Xn;R65		
01-2119471843-32	Flam. Liq. 3, H226	R10		
	Asp. Tox. 1, H304	R66-R67-R52/53		
DEAROMATIZED	STOT SE 3, H336			
HYDROCARBONS	Aquatic Chronic 3,			
	H412			
	EUH:066			
INDEX: 607-195-00-7	GHS02	R10	[1]	2.5 <= x % < 10
CAS: 108-65-6	Wng			
EC: 203-603-9	Flam. Liq. 3, H226			
REACH:				
01-2110475791-29-xxx				
x				
2-METHOXY-1-METHYLET				
HYL ACETATE				
INDEX: 606-002-00-3	GHS02, GHS07	Xi,F	[1]	2.5 <= x % < 10
CAS: 78-93-3	Dgr	Xi;R36	[1]	2.0 ×= X /0 × 10
EC: 201-159-0	Flam. Liq. 2, H225	F;R11		
LO. 201-133-0	Eye Irrit. 2, H319	R66-R67		
BUTANONE	STOT SE 3 H336			
BUTANONE	STOT SE 3, H336 EUH:066			

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

### **SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

## 4.1. Description of first aid measures

## In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

### In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

## **SECTION 5 : FIREFIGHTING MEASURES**

Flammable

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

### 5.1. Extinguishing media

In the event of fire, use specifically suitable extinguishing agents. Never use water.

Keep packages near the fire cool, to prevent pressurised containers from bursting.

### Suitable methods of extinction

In the event of a fire, use :

### - sprayed water or water mist

- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

### Unsuitable methods of extinction

- In the event of a fire, do not use :
- water
- water jet

## 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

- Do not breathe in smoke.
- In the event of a fire, the following may be formed :
- carbon monoxide (CO)
- carbon dioxide (CO2)

### 5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

## For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

## For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

### 6.3. Methods and material for containment and cleaning up

### Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

# SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Ensure that there is adequate ventilation, especially in confined areas.

### Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

# Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Never pour water into this mixture.

Do not breathe in aerosols.

Packages which have been opened must be reclosed carefully and stored in an upright position.

### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

### 7.2. Conditions for safe storage, including any incompatibilities

#### No data available.

### Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

## Packaging

Always keep in packaging made of an identical material to the original.

## 7.3. Specific end use(s)

No data available.

### SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### Occupational exposure limits :

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3:	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
108-65-6	275	50	550	100	Peau
78-93-3	600	200	900	300	-
- ACGIH TL	V (American Conferer	nce of Governmental	Industrial Hygienists,	Threshold Limit Valu	ues, 2010) :
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
74-98-6	1000 ppm	-	-	-	-
106-97-8	1000 ppm	-	-	-	-
75-28-5	1000 ppm	-	-	-	-
78-93-3	200 ppm	300 ppm	-	-	-
- Denmark (2007) :					
CAS	TWA :	TWA :	Anm :		

SAFETY DATA	A SHEET (REGULATIO	DN (EC) n° 1907/2006	- REACH)		Version 13	3.2 (10-04-2015) - Page 5/1
TRIG-A-CAP E	EXTRA marking paint -	TACE				
74-98-6	1000 ppm	1800 mg/m3	-			
106-97-8	500 ppm	1200 mg/m3	-			
108-65-6	50 ppm	275 mg/m3	Н			
78-93-3	50 ppm	145 mg/m3	Н			
- France (	INRS - ED984 :2008)	:		I	I	I
CAS	VME-ppm :	VME-mg/m3:	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
106-97-8	800	1900	-	-	-	-
108-65-6	50	275	100	550	-	-
78-93-3	200	600	300	900	*	84
- Norway	(Veiledning om adminis	strative normer for foru	rensning i arbeidsat	mosfære, May 2007)	:	I
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
74-98-6	500 ppm	-	-	-	-	
106-97-8	250 ppm	-	-	-	-	
108-65-6	50 ppm	-	-	-	-	
78-93-3	75 ppm	-	-	-	-	
- Sweden	(AFS 2007:2) :					
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
108-65-6	50 ppm	75 ppm	-	-	-	
78-93-3	50 ppm	100 ppm	-	-	-	
- UK / WE	L (Workplace exposure	e limits, EH40/2005, 20	007) :			
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
106-97-8	600 ppm	750 ppm	-	-	-	
108-65-6	50 ppm	100 ppm	-	-	-	
78-93-3	200 ppm	300 ppm	-	-	-	

10

# Derived no effect level (DNEL) or derived minimum effect level (DMEL):

DEAROMATIZED HYDROCARBONS Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

## Final use:

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

# DEAROMATIZED HYDROCARBONS (CAS: 64742-48-9) Final use: Exposure method:

DNEL :

Exposure method: Potential health effects: DNEL :

# Final use:

Exposure method: Potential health effects: DNEL :

# Workers.

Dermal contact. Long term systemic effects. 300 mg/kg de poids corporel/jour

Inhalation. Long term systemic effects. 1500 mg de substance/m3

## Consumers.

Ingestion. Long term systemic effects. 300 mg/kg de poids corporel/jour

Dermal contact. Long term systemic effects. 300 mg/kg de poids corporel/jour

Inhalation. Long term systemic effects. 900 mg de substance/m3

# Workers.

Dermal contact. Long term systemic effects. 300 mg/kg de poids corporel/jour

Inhalation. Long term systemic effects. 1500 mg de substance/m3

## Consumers.

Ingestion. Long term systemic effects. 300 mg/kg de poids corporel/jour

Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	300 mg/kg de poids corporel/jour
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.

## 8.2. Exposure controls

DNEL :

### Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation,

900 mg de substance/m3

## - Eye / face protection

Avoid contact with eyes.

especially in confined areas.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

## - Body protection

Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

## General information :

Physical state :	Viscous liquid.
	Spray.
Important health, safety and environmental information	
pH :	Not relevant.
Boiling point/boiling range :	Not specified.
Vapour pressure (50°C) :	Not relevant.
Density :	< 1
Water solubility :	Insoluble.
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.
Chemical combustion heat :	Not specified.
Inflammation time :	Not specified.
Deflagration density :	Not specified.
Inflammation distance :	Not specified.
Flame height :	Not specified.
Flame duration :	Not specified.

## 9.2. Other information

No data available.

## **SECTION 10 : STABILITY AND REACTIVITY**

### 10.1. Reactivity

#### No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

## 10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

### 10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

- Avoid :
- heating
- heat
- humidity

Protect from moisture. Reaction with water can cause an exothermic reaction.

## 10.5. Incompatible materials

Keep away from :

- water

## 10.6. Hazardous decomposition products

- The thermal decomposition may release/form :
- carbon monoxide (CO)
- carbon dioxide (CO2)

## **SECTION 11 : TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

Splashes in the eyes may cause irritation and reversible damage

# 11.1.1. Substances

## Acute toxicity :

DEAROMATIZED HYDROCARBONS Oral route :	LD50 > 5000 mg/kg Species : Rat (recommended by the CLP)
Dermal route :	LD50 > 5000 mg/kg Species : Rabbit (recommended by the CLP)
Inhalation route :	LC50 > 4951 mg/m3 Species : Rat (recommended by the CLP)
DEAROMATIZED HYDROCARBONS (CAS: 64742-4) Oral route :	3-9) LD50 > 5000 mg/kg Species : Rat
Dermal route :	LD50 > 5000 mg/kg Species : Rabbit
Inhalation route :	LC50 > 4951 mg/m3 Species : Rat

## 11.1.2. Mixture

No toxicological data available for the mixture.

# SECTION 12 : ECOLOGICAL INFORMATION

## 12.1. Toxicity

12.1.1. Substances	
DEAROMATIZED HYDROCARBONS (CAS:	64742-48-9)
Fish toxicity :	LC50 > 1000 mg/l
	Species : Oncorhynchus mykiss
	Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 1000 mg/l
	Species : Daphnia magna
	Duration of exposure : 48 h
Algae toxicity :	ECr50 > 1000 mg/l
	Species : Pseudokirchnerella subcapitata
	Duration of exposure : 72 h

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 -	REACH)	Version 13.2 (10-04-2015) - Page 8/10
TRIG-A-CAP EXTRA marking paint - TACE		
Aquatic plant toxicity :	Species : Others	
12.1.2. Mixtures		
No aquatic toxicity data available for the mixture.		
12.2. Persistence and degradability		
12.2.1. Substances		
DEAROMATIZED HYDROCARBONS		
Biodegradability :	no degradability data is available, the substan degrading quickly.	ce is considered as not
DEAROMATIZED HYDROCARBONS (CAS: 64742-44	3-9)	
Biodegradability :	no degradability data is available, the substand degrading quickly.	ice is considered as not
12.3. Bioaccumulative potential		
No data available.		
12.4. Mobility in soil		
No data available.		
12.5. Results of PBT and vPvB assessment		
No data available.		
12.6. Other adverse effects		
No data available.		

## **SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

## Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

## Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

### Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

16 05 04 \* gases in pressure containers (including halons) containing dangerous substances

## **SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

### 14.1. UN number

1950

# 14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :



2.1 14.4. Packing group

14.5. Environmental hazards

### 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327	EO	2	D
							344 625			
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	2.1	See SP63	-	SP277	F-D,S-U	63 190	E0			
						277 327				
						344 959				
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.1	-	-	203	75 kg	203	150 kg	A145 A167	E0	
								A145 A167		
								A802		
	2.1	-	-	Y203	30 kg G	-	-	A145 A167	E0	
								A802		

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG. For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## **SECTION 15 : REGULATORY INFORMATION**

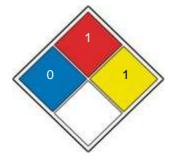
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## - Classification and labelling information included in section 2:

- The following regulations have been used:
- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Directive 75/734/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- Container information:
- No data available.
- Particular provisions :

No data available.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) : NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

## **SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Extremely flammable

Risk phrase :	
R 12	Extremely flammable.
R 67	Vapours may cause drowsiness and dizziness.
Safety phrase :	
	No smoking.
	Pressurized container: protect from sunlight and do not expose to temperatures exceeding
	50°C.
	Do not pierce or burn, even after use.
	Do not spray on a naked flame or any incandescent material.
S 33	Take precautionary measures against static discharges.

Wording of the phrases mentioned in section 3  $\,$  :

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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
R 10	Flammable.
R 11	Highly flammable.
R 12	Extremely flammable.
R 36	Irritating to eyes.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.

Abbreviations :

DNEL : Derived No-Effect Level

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS02 : Flame