

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

### 1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: GALVA PROCAT Brillant**
  
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU21 Consumer uses: Private households / general public / consumers
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category PC9a** Coatings and paints, thinners, paint removers
- **Process category**
  - PROC7 Industrial spraying
  - PROC11 Non industrial spraying
- **Application of the substance / the mixture** Spray varnish
  
- **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:** Service QSE/E-mail: fds@amperesystem.com
- **1.4 Emergency telephone number:** Tel: +33 1 45 42 59 59 (N° ORFILA)

### 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.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

(Contd. on page 2)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

**Trade name: GALVA PROCAT Brillant**

(Contd. of page 1)

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: 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! Pressurized container.

Has a narcotizing effect.

· **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**



GHS02   GHS07   GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Acetone

· **Hazard statements**

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

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

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P271 Use only outdoors or in a well-ventilated area.

P261 Avoid breathing mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403 Store in a well-ventilated place.

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.

GB

(Contd. on page 3)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

Trade name: GALVA PROCAT Brillant

(Contd. of page 2)

### 3 Composition/information on ingredients

#### 3.1 Substances

Additional information:		
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-<50%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8)) F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-<25%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Benzene<0.1% Xn R65; Xi R37; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304	3-<10%
CAS: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (pyrophoric) F R15-17; N R50/53 Pyr. Sol. 1, H250; Water-react. 1, H260; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-<2.5%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene Xn R20; Xi R36/37/38; N R51/53 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	1-<2.5%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38	butanol Xn R22; Xi R37/38-41 R10-67 Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1.0-<2.5%
CAS: 108-67-8 EINECS: 203-604-4	mesitylene Xi R36/37/38; N R51/53 R10 Flam. Liq. 3, H226; Aquatic Chronic 2, H411; STOT SE 3, H335	0.3-<1%
CAS: 98-82-8 EINECS: 202-704-5	isopropylbenzene Xn R65; Xi R37; N R51/53 R10 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335	0.3-<1%
CAS: 7779-90-0 EINECS: 231-944-3	trizinc bis(orthophosphate) N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.3-<1%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-<0.25%

#### 3.2 Mixtures

· **Description:** Active substance with propellant

· **Dangerous components:** -

· **Additional information:**

GB

(Contd. on page 4)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

**Trade name: GALVA PROCAT Brillant**

(Contd. of page 3)

### 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. 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.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 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.

### 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.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
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.

### 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.  
Pressurized 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.

(Contd. on page 5)

GB

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

**Trade name: GALVA PROCAT Brillant**

(Contd. of page 4)

- **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 pressurized containers.
- **Information about storage in one common storage facility:**  
Observe official regulations on storing packagings with pressurized 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.
- **7.3 Specific end use(s)** No further relevant information available.

### 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:**

##### 67-64-1 Acetone

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm
	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

##### 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/m <sup>3</sup> , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)

##### 74-98-6 propane

OEL	Short-term value: 3600 mg/m <sup>3</sup> , 2000 ppm
	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm

##### 95-63-6 1,2,4-trimethylbenzene

WEL	Long-term value: 125 mg/m <sup>3</sup> , 25 ppm
	ILV

##### 71-36-3 butanol

WEL	Short-term value: 154 mg/m <sup>3</sup> , 50 ppm
	Sk

- **DNELs**

##### 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/m <sup>3</sup> (Worker)
	DNEL Long term-systemic	200 mg/m <sup>3</sup> (Consumer)
		1210 mg/m <sup>3</sup> (Worker)

##### 71-36-3 butanol

Oral	DNEL Long term-systemic	3.125 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-local	310 mg/m <sup>3</sup> (Consumer)
		55 mg/m <sup>3</sup> (Worker)

- **PNECs**

##### 67-64-1 Acetone

PNEC Freshwater sediment	30.4 mg/kg (Undefined)
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(Contd. on page 6)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

**Trade name: GALVA PROCAT Brillant**

(Contd. of page 5)

PNEC Marine water	1.06 mg/l (Undefined)
PNEC Marine water sediment	3.04 (Undefined)
PNEC Soil	29.5 mg/kg (Undefined)

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

· **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.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX/P2

· **Protection of hands:**



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** Nitrile rubber, NBR

· **Penetration time of glove material**

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

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Use protective suit.

## 9 Physical and chemical properties

· **9.1 Information on basic physical and 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**

**Melting point/Melting range:**

Undetermined.

**Boiling point/Boiling range:**

-44 °C

· **Flash point:**

-97 °C

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

365 °C

(Contd. on page 7)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

Trade name: GALVA PROCAT Brillant

(Contd. of page 6)

· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	13.0 Vol %
· <b>Vapour pressure at 20 °C:</b>	8300 hPa
· <b>Density at 20 °C:</b>	0.711 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	89.6 %
<b>Solids content:</b>	10.4 %
· <b>9.2 Other information</b>	No further relevant information available.

### 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.

### 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

#### · **LD/LC50 values relevant for classification:**

##### **67-64-1 Acetone**

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	7800 mg/kg (rbt)
Inhalative	LC50/4h	>20 mg/l (rat)

##### **64742-95-6 Solvent naphtha (petroleum), light arom. Benzene<0.1%**

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rabbit)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

(Contd. on page 8)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

**Trade name: GALVA PROCAT Brillant**

(Contd. of page 7)

**7440-66-6 zinc powder -zinc dust (pyrophoric)**

Oral	LD50	>2000 mg/kg (rat)
	LDLo	388 mg/kg (Duck)

**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)

**71-36-3 butanol**

Oral	LD50	2292 mg/kg (rat)
Dermal	LD50	3430 mg/kg (rbt)
Inhalative	LC50/4 h	>17.76 mg/l (rat)

**7779-90-0 trizinc bis(orthophosphate)**

Oral	LD50	5000 mg/kg (rat)
------	------	------------------

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

**12 Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****67-64-1 Acetone**

EC50	8800 mg/l (Daphnia magna)
	8300 (96h) mg/l (Fish)

**7440-66-6 zinc powder -zinc dust (pyrophoric)**

EC50	2.8 mg/l (Daphnia Magna 48h)
LC50	0.57 mg/l (Daphnia magna)
	0.24 mg/l (Oncorhynchus mykiss (96h))
	0.238 mg/l (Pimephales promelas (96 h))

**95-63-6 1,2,4-trimethylbenzene**

EC50	3.6 mg/l (Daphnia Magna 48h)
LC50	7.72 mg/l (Pimephales promelas (96 h))

**71-36-3 butanol**

EC50	225 mg/l (Selenastrum capricornatum (72 h))
EC50/48h	1328 mg/l (Daphnia magna)
LC50/96h	1376 mg/l (Pimephales promelas)
NOEC (21 days)	4.1 mg/l (Daphnia magna)

**7779-90-0 trizinc bis(orthophosphate)**

EC50/48h	2.34 mg/l (Daphnia magna)
ErC(50) (72h)	0.14 mg/l (Desmodesmus subspicatus)
LC50/96h	0.14 mg/l (Oncorhynchus mykiss (96h))

· **12.2 Persistence and degradability** Easily biodegradable· **12.3 Bioaccumulative potential** No further relevant information available.

(Contd. on page 9)



# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

**Trade name: GALVA PROCAT Brillant**



(Contd. of page 8)

- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **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.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for 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.

### 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.

### 14 Transport information

- |  |   |
|--|---|
| · <b>14.1 UN-Number</b>                  |   |
| · <b>ADR, IMDG, IATA</b>                 | UN1950  |
| · <b>14.2 UN proper shipping name</b>    |   |
| · <b>ADR</b>                             | 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  |
| · <b>IMDG</b>                            | AEROSOLS  |
| · <b>IATA</b>                            | AEROSOLS, flammable   |
| · <b>14.3 Transport hazard class(es)</b> |   |
| · <b>ADR</b>                             |   |
|  |  |
| · <b>Class</b>                           | 2 5F Gases.   |
| · <b>Label</b>                           | 2.1   |
| · <b>IMDG, IATA</b>                      |   |
|  |  |
| · <b>Class</b>                           | 2.1   |
| · <b>Label</b>                           | 2.1   |
| · <b>14.4 Packing group</b>              |   |
| · <b>ADR, IMDG, IATA</b>                 | Void  |
| · <b>14.5 Environmental hazards:</b>     |   |
| · <b>Marine pollutant:</b>               | No  |

(Contd. on page 10)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

Trade name: GALVA PROCAT Brillant

(Contd. of page 9)

· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Gases.
· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-D,S-U
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>UN "Model Regulation":</b>	UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

### 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	75-<100

· **VOC-CH** 89.63 %

· **VOC-EU** 637.2 g/l

· **Danish MAL Code** 5-3

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.
H250	Catches fire spontaneously if exposed to air.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.

(Contd. on page 11)

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 19.03.2014

Version: 17

Revision: 19.03.2014

**Trade name: GALVA PROCAT Brillant**

(Contd. of page 10)

- R15 Contact with water liberates extremely flammable gases.  
R17 Spontaneously flammable in air.  
R20 Harmful by inhalation.  
R22 Harmful if swallowed.  
R36 Irritating to eyes.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R37 Irritating to respiratory system.  
R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
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 Organization

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 Harmonized 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 Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

GB