



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: AEROSOL PEINTURE PHOSPHORESCENTE SIGNAL

Product code: ST.CO-A-PH2K.

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

Spray paint.

1.3. Details of the supplier of the safety data sheet

Registered company name: STARDUSTCOLORS EURL.

Address: Route de l'Aviation.30131.PUJAUT.France.

Telephone: +33 (0)4 86 65 50 32. Fax: -.

Email : stardustcolors@live.fr

<http://www.stardustcolors.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.

Flammable aerosol, Category 1.

May produce an allergic reaction.

This mixture does not present a health hazard.

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.

May produce an allergic reaction.

This mixture does not present a health hazard.

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:



GHS02

Signal Word:

DANGER

Additional labeling:

EUH208

Contains ETHANE-1,2-DIYL

BIS{3-[3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL]PROPANOATE}. May produce an allergic reaction.

For professional use only.

Hazard statements:

H222 Extremely flammable aerosol.
 Precautionary statements - Prevention:
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 Precautionary statements - Storage:
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

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

Hazard symbols:



Extremely flammable

Contains:

Contains CAS 104810-47-1 ETHANE-1,2-DIYL BIS{3-[3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL]PROPANOATE}. May produce an allergic reaction.

Risk phrase:

R 12 Extremely flammable.
 For professional use only.

Safety phrase:

S 16 Keep away from sources of ignition - 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.
 Product submitted to restrictions on the marketing and use: see Regulation (EC) No 1907/2006.

2.3. Other hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures

Composition :

Identification	Name	Classification	%
INDEX: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	PROPANE	GHS02, GHS04, Dgr F+ H:220 R: 12	10 <= x % < 25
INDEX: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	BUTANE	GHS02, GHS04, Dgr F+ H:220 R: 12 NOTA: C	10 <= x % < 25
INDEX: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8	DIMETHYL ETHER	GHS02, GHS04, Dgr F+ H:220 R: 12	10 <= x % < 25
INDEX: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1	N-BUTYL ACETATE	GHS02, GHS07, Wng H:226-336 EUH:066 R: 10-66-67	2.5 <= x % < 10
INDEX: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 REACH: 01-2119471330-49	ACETONE	GHS02, GHS07, Dgr Xi,F H:225-319-336 EUH:066 R: 11-36-66-67	2.5 <= x % < 10
CAS: 1344-28-1 EC: 215-691-6	ALUMINIUM OXIDE (AL2O3)		2.5 <= x % < 10

INDEX: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9	2-METHOXY-1-METHYLETHYL ACETATE	GHS02, Wng H:226 R: 10	2.5 <= x % < 10
INDEX: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9	TOLUENE	GHS02, GHS08, GHS07, Dgr Xn,F H:225-361d-304-373-315-336 R: 11-38-48/20-63.G3-65-67	1 <= x % < 2.5
CAS: 104810-47-1	ETHANE-1,2-DIYL BIS{3-[3-(2H-BENZOTRIAZOL-2 -YL)-5-TERT-BUTYL-4-HYDROXY PHENYL]PROPANOATE}	GHS09, GHS07, Wng Xi,N H:317-411 R: 43-51/53	0 <= x % < 1

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 exposure by inhalation:

In the event of an allergic reaction, seek medical attention.

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 splashes or contact with skin:

In the event of an allergic reaction, seek medical attention.

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

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 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

Due to the toxicity of the gas emitted on thermal decomposition of the products, 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 fire-fighters

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

For fire-fighters

Fire-fighters 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

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 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:
115-10-6	1920	1000	-	-	-
67-64-1	1210	500	-	-	-
108-65-6	275	50	550	100	Peau
108-88-3	192	50	384	100	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
74-98-6	1000 ppm	-	-	-	-
106-97-8	1000 ppm	-	-	-	-
123-86-4	150 ppm	200 ppm	-	-	-
67-64-1	500 ppm	750 ppm	-	-	-
1344-28-1	10 mg/m3	-	-	-	-
108-88-3	50 ppm	-	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010):

CAS	VME:	VME:	Excess	Notes
74-98-6	1000 ml/m3	1800 mg/m3	4(II)	DFG
106-97-8	1000 ml/m3	2400 mg/m3	4(II)	DFG
115-10-6	1000 ml/m3	1900 mg/m3	8(II)	DFG
67-64-1	500 ml/m3	1200 mg/m3	2(I)	DFG
108-65-6	50 ml/m3	270 mg/m3	1(I)	DFG, EU, Y
108-88-3	50 ml/m3	190 mg/m3	4(II)	DFG, H, Y

- France (INRS - ED984:2007 and French Order of 30/06/2004):

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No.:
106-97-8	800	1900	-	-	-	-
115-10-6	1000	1920	-	-	-	-
123-86-4	150	710	200	940	-	84
67-64-1	500	1210	1000	2420	-	84
1344-28-1	-	10	-	-	-	-
108-65-6	50	275	100	550	-	-
108-88-3	50	192	100	384	R3	4 Bis, 84, *

- Switzerland (SUVA 2009):

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
74-98-6	1800	1000	7200	4000	4x15	-
106-97-8	1900	800	-	-	-	-
115-10-6	1910	1000	-	-	-	-
123-86-4	480	100	960	200	4x15	-
67-64-1	1200	500	2400	1000	4x15	B
1344-28-1	3a	-	24 a	-	4x15	-
108-65-6	275	50	275	50	15 min	-
108-88-3	190	50	760	200	4x15	RB

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
106-97-8	600 ppm	750 ppm	-	-	-
115-10-6	400 ppm	500 ppm	-	-	-
123-86-4	150 ppm	200 ppm	-	-	-
67-64-1	500 ppm	1500 ppm	-	-	-
1344-28-1	10 mg/m3	-	-	-	TI
108-65-6	50 ppm	100 ppm	-	-	-
108-88-3	50 ppm	150 ppm	-	-	-

8.2. Exposure controls**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



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, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

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:	fluid liquid
	spray

Important health, safety and environmental information:

pH of the substance or preparation:	not relevant.
-------------------------------------	---------------

The pH is impossible to measure or its value is not relevant.

Flash point interval:	not relevant.
-----------------------	---------------

Vapour pressure:	Below 110 kPa (1.10 bar).
------------------	---------------------------

Density:	< 1
----------	-----

Water solubility:	Insoluble.
-------------------	------------

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

10.5. Incompatible materials

Keep away from:

- oxidising agents

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

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
Splashes in the eyes may cause irritation and reversible damage

Mixture

No toxicological data available for the mixture.

Respiratory or skin sensitisation:

Contains at least one sensitising substance. May cause an allergic reaction.

Monograph(s) from the IARC (International Agency for Research on Cancer):

CAS 108-88-3 : IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity****Substances**

No aquatic toxicity data available for the substances.

Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

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.

German regulations concerning the classification of hazards for water (WGK):

WGK 1 (VwVwS vom 27/07/2005, KBws): Slightly hazardous for water.

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.

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 2011 - IMDG 2010 - ICAO/IATA 2011).

- Classification:



UN1950=AEROSOLS, flammable

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327	E0	2	D

							344 625		
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ		
	2.1	SP63	-	SP277	F-D,S-U	63 190 277 327 959	E0		
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.1	-	-	203	75 kg	203	150 kg	A145 A167	E0
	2.1	-	-	Y203	30 kg G	-	-	A145 A167	E0

SECTION 15: REGULATORY INFORMATION

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

Usage restrictions apply to the product: See annex XVII of EC regulation No. 1907/2006.

For professional users only.

- Particular provisions:

No data available.

- German regulations concerning the classification of hazards for water (WGK):

Germany: WGK 1 (VwVwS vom 27/07/2005, KBws)

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.

Title for H, EUH and R indications mentioned in section 3:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure .
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains <name of sensitising substance>. May produce an allergic reaction.
R 10	Flammable.
R 11	Highly flammable.
R 12	Extremely flammable.
R 36	Irritating to eyes.
R 38	Irritating to skin.
R 43	May cause sensitisation by skin contact.
R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 63.G3	Possible risk of harm to the unborn child.
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:

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: Wassergefährdungsklasse (Water Hazard Class).