

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product code: A1

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

Use: Solution for metallization
Uses advised against: Do not use for purposes other than those listed.

1.3. Details of the supplier of the safety data sheet

Racing Colors, s.l.
Av. Carrilet, 251
08907 L'Hospitalet de Llobregat, Barcelona, SPAIN
www.racingcolors.com mail: admin@racingcolors.com

1.4. Emergency telephone number

Tel.: +34.93 27 27 34 Fax: +34.93 314 29 11 (Working Hours)

2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

CAS 123-86-4 CEE 607-025-00-1 EINECS 204-658-1 REACH 01-2119485493-29

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms: GHS03, GHS05, GHS07, GHS09
Hazard Class and Category Code(s): Skin Corr. 1B, STOT SE 3, Aquatic Chronic 1, Aquatic Acute 1, Ox. Liq. 2
Hazard statement Code(s): H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects. (M-factor1)
H400 - Very toxic to aquatic life. (M-factor1)
H272 - May intensify fire; oxidiser.

2.1.2 Classification according to Directive 1999/45/EEC:

Classification: O; R8 C; R34 Xi; R37 N; R50/53
Nature of special risks attributed: R8 - Contact with combustible material may cause fire.
R34 - Causes burns.
R37 - Irritating to respiratory system.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The product has oxidizing properties can intensify fire
Corrosive product: causes severe skin burns and eye damage.
If inhaled the product, causes irritations to the respiratory tract.
The product is dangerous for the environment as it is very toxic to aquatic organisms
The product is dangerous to the environment as it is very toxic to aquatic life with long lasting effects

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

Pictogram, Signal Word Code(s): GHS03
GHS05
GHS07
GHS09
Danger



Hazard statement Code(s):

H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects. (M-factor1)
H400 - Very toxic to aquatic life. (M-factor1)
H272 - May intensify fire; oxidiser.

Precautionary statements:**Prevention:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P310 - Immediately call a POISON CENTER or doctor/physician.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.

Storage:

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.

Contains: Ammonia, aqueous solution, Silver nitrate

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII
No information on other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Mixtures.**

Substance	Conc. %	Classification Dir 67/548	Classification Reg 1272/08	Identification Number		REACH
Silver nitrate	20 ÷ 30	O; R8 C; R34 N; R50/53	Ox. Sol. 2, H272; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	CEE: CAS: EINECS:	047-001-00-2 7761-88-8 231-853-9	ND
Ammonia, aqueous solution	5 ÷ 10	C; R35 N; R50	Skin Corr. 1B, H314 Aquatic Acute 1, H400;	CEE: CAS: EINECS:	007-001-01-2 1336-21-6 215-647-6	ND

4. FIRST AID MEASURES**4.1. Description of first aid measures**Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated room. CALL A PHYSICIAN.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

Consult a physician immediately

Direct contact with eyes (of the pure product):

D Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

Immediately call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.

Discharge the remains in compliance with the regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors. See also paragraph 8 below.

At work do not eat or drink.

Do not smoke at work.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

7.3. Specific end use(s)

Professional uses:
Follow the rules of good hygiene in the workplace.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control parameters

Substance	TLV-TWA	TLV-STEL	OTHER
Silver Nitrate (as Ag)	0.01g/m ³ (ACGIH 1997)	-	-
Ammonia, aqueous solution NH ₃	25 ppm; 17 mg/m ³ (ACGIH 1994-1995).	35 ppm; 24 mg/m ³ (ACGIH 1994-1995).	-

8.2. Exposure controls

Individual protection measures:

Eye / face protection:	When handling the pure product use safety glasses (spectacles cage) (EN 166).	
Skin protection:	When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)	
Other:	When handling the pure product wear full protective skin clothing.	
Respiratory protection:	Needed in case of insufficient ventilation or prolonged exposure. Use adequate protective respiratory equipment (EN 141)	
Other:	Safety shoes.	
Thermal hazards:	No hazard to report	

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value
Appearance	Liquid
Odour	Characteristic
Odour threshold	Not determined
pH	10
Melting point/freezing point	Not determined
Initial boiling point and boiling range	>100°C
Flash point	Not determined
Evaporation rate	Not determined

Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	0.95g/mL
Solubility	Insoluble in organic solvents
Water solubility	Soluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined

9.2. Other information

Content of VOC: 0%

10. STABILITY AND REACTIVITY

10.1. Reactivity

No reactivity hazards.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions.

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.
It can generate toxic gases to contact with inorganic sulfide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

11. TOXICOLOGICAL INFORMATION

11.1. Informazioni sugli effetti tossicologici

ATE(mix) oral = 0.0 mg/kg
ATE(mix) dermal = 0.0 mg/kg
ATE(mix) inhal = 0.0 mg/l/4 h

(a) acute toxicity	Not applicable
(b) skin corrosion/irritation	Corrosive product: causes severe skin burns and eye damage. <u>Silver nitrate</u> : The corrosive substance for the skin and the respiratory tract. The effects may be delayed. It's the medical observation. <u>Ammonia, aqueous solution</u> : Corrosive if swallowed. Corrosive to the respiratory tract and the skin.
(c) serious eye damage/irritation	<u>Silver nitrate</u> : The substance corrosive to eyes. <u>Ammonia, aqueous solution</u> : Corrosive to eyes.
(d) respiratory or skin sensitization	Not applicable
(e) germ cell mutagenicity	Not applicable
(f) carcinogenicity	Not applicable

(g) reproductive toxicity	Not applicable
(h) specific target organ toxicity (STOT) single exposure	If inhaled the product, causes irritations to the respiratory tract.
(i) specific target organ toxicity (STOT) repeated exposure	<u>Silver nitrate</u> : The substance may affect the blood, causing the formation of methemoglobin. Inhalation or ingestion can lead to generalized argyria, greyish discoloration of the eyes and skin and Brown nails. <u>Ammonia, aqueous solution</u> : The lungs can be damaged by repeated or prolonged exposure to vapor or aerosol.
(j) aspiration hazard	<u>Silver nitrate</u> : Corrosive if swallowed. The substance can be absorbed into the body by inhalation of its aerosol and by ingestion. Evaporation at 20 C negligible; a harmful concentration of particles in the air can be reached quickly when dispersed or spray, especially if crumbly. <u>Ammonia, aqueous solution</u> : The substance can be absorbed into the body by inhalation of its aerosol and vapours or by ingestion. A harmful contamination of the air can be reached very quickly due to evaporation of the substance at 20 C. Inhalation of high vapour concentrations may cause edema of larynx, respiratory tract inflammation, and chemical Pneumonitis. The effects may be delayed.

Related to contained substances:

Silver nitrate

NOTE. Depending on the degree of exposure, periodic medical examinations suggest. In case of poisoning with this substance requires a specific treatment; appropriate means must be available and instructions.

SYMPTOMS:

INHALATION. Sore throat. Cough. Burning sensation. Shortness of breath. Difficulty breathing. Lips or fingernails blue. CUTE blue. Dizziness.

Headaches. Nausea. State of confusion. Convulsions. State of unconsciousness. Symptoms may be delayed (see notes).

CUTE. Pain. Redness. Scorched skin. Blisters. (See also inhaled).

EYES. Redness. Pain. Severe deep burns. Loss of vision.

INGESTION. Abdominal pain. Burning sensation. Shock or collapse. (Further see inhalation).

Ammonia, aqueous solution

NOTE. Depending on the degree of exposure, periodic medical examinations are indicated. Do not completely fill the container with the substance; very concentrated solutions can cause pressure build-up. Open with caution. The other numbers are: 1005 ammonia, anhydrous a molten or in solution, its population density less than 0.880 at 15 C in water at concentrations greater than 50% of ammonia; A 2073 ammonia, 35-50%.

ACUTE HAZARDS/symptoms inhalation: burning sensation. Cough. Difficulty in breathing. Shortness of breath. Sore throat.

SKIN: Irritant. Redness. Severe skin burns. Pain. Blisters.

EYES: Corrosive. Redness. Pain. Blurred vision. Severe deep burns.

Ingestion: Corrosive. Abdominal cramps. Abdominal pain. Sore throat. Vomiting. (See also intake).

LD50 (rat) Oral (mg/kg body weight) = 350

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Related to contained substances:

Silver nitrate

The substance is very toxic to aquatic organisms.

Ammonia, aqueous solution

The substance is very toxic to aquatic organisms.

C(E)L50 (mg/l) = 8,2

The product is dangerous for the environment as it is very toxic to aquatic organisms following acute exposure.

The product can cause long-term adverse effects in the aquatic environment, being hardly degradable and / or bioaccumulative

Use according to good working practices to avoid pollution into the environment.

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

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

14. TRANSPORT INFORMATION**14.1 UN number**

3066

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

**14.2 UN proper shipping name**

PAINT or PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

Class : 8

Label : 8

Tunnel restriction code : E

Limited quantities : 5 L

EmS : F-A, S-B

14.4 Packing group

III

14.5. Environmental hazards

Product is not environmentally hazardous

Marine polluting agent : Not

14.6. Special precautions for user

The goods must be transported by vehicles authorized to transport of dangerous goods according to the current edition of ADR requirements and applicable national regulations.

The goods must be in original packing, however, in packaging made of materials resistant to their content and not likely to generate with this dangerous reactions. People loading and unloading dangerous goods must be trained on the risks from these substances and that must be taken in case of emergency situations

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

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

Reg (EC) n. 1907/2006 (REACH), Reg (EC) n. 1272/2008 (CLP), Reg (EC) n. 453/2010 (Requirements for the compilation of safety data sheets), Reg (E) n.790/2009, Dir 96/82/EC as amended.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

16. OTHER INFORMATION

16.1. Other information

Description of the sentences of risk set out in paragraph 3

R8 = Contact with combustible material may cause fire.

R34 = Causes burns.

R50 = Very toxic to aquatic organisms.

R53 = May cause long-term adverse effects in the aquatic environment.

Description of the hazard statements exposed to point 3

H272 = May intensify fire; oxidiser.

H314 = Causes severe skin burns and eye damage.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

Regulatory information:

Dir 67/548 29° Amendment

Dir 1999/45/EC e s.a.a.

Dir 2001/60/EC

Reg 1907/2006 EC

Reg 1272/2008 EC

Reg 453/2010 EC

NOTICE TO USERS:

The information contained herein is based on the knowledge available at the date of completion relating to requirements for safety, health, environmental protection and proper use of the product. The user must be aware of the possible risks associated with use of the product other than that for which the product is shipped. The card is not in any way excuse the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfil its obligations regarding the use of hazardous products. This does not exonerate the user from ensuring that legal obligations other than those mentioned and regulated, the possession and use of the product is solely responsible.

*** This sheet supersedes all previous editions.
