Material Safety Data Sheet

July 2011 **FDS 11.07**

1. Identification of the Substance/Preparation and Company

Product Name**: Chemical cold silver** Réf **: AR18**

Product Type : chemical silver coating

Company:
C.I.F
11 rue Charles Michels –
92220 Bagneux France
Tel 33 1 4547 4800 FAX 33 1 4547 1614

2. Composition / information on the ingredients

Preparation based on :	Silver nitrate < 10%	
Components or impurities contributing to :	CAS N°:	7761-88-8
hazards	EEC Classification :	231-853-9
	Ammoniaque < 20%	
	CAS N° :	1336-21-6
	EEC Classification :	215-647-6

3. Hazards Identification

Human health hazards :	Xi Irritating.
Safety hazards :	R34 Causes burn.
	R36/37/38 Irritating to Eyes, skin and respiratory system.

4. First Aid measures

Inhalation :	Remove casualty to fresh air and place in sitting position. Transport immediately to a hospital.
Skin Contact :	Wash affected area immediately with abundant water. Remove soiled clothes. Be attentive to any trace of product that may hide between skin and clothes, watch, shoes ... Seek medical advice.
Eye Contact :	Rinse immediately with plenty of water for at least 15 minutes, also under eyelids. Consult a specialist immediately.
Ingestion :	Rinse the mouth, transfer immediately to a hospital.
Others :	Keep under observation even without symptoms.

5. Fire Fighting Measures

Suitable Extinguishing Media:	Any extinguishing media may be use.
Specific Methods :	Use standard procedure for chemical fire.
Protection of Fire-Fighters :	Wear a full protective suit and a respiratory system.

6. Accidental Release Measures

Personal Precautions :	Use a protective suit.
Environmental Precautions :	Do not flush into surface water or sanitary sewer system.
Methods of cleaning up/recovery :	Sponge up as much as possible and store product in appropriate containers. Neutralise residual product with lime and water.

7. Handling and Storage

Handling	Technical Measures :	Observe usual precautions associated with handling corrosive chemicals. Extraction is recommended.
	Safe Handling Advice :	Dilution with water is highly exothermic, proceed slowly and with caution. ALWAYS add the product TO the water.
Storage	Suitable Storage Condition :	Keep away from sunlight in a cool, dry and well-aerated place.
	Incompatibles Materials :	Separate from Reducing agents and alkaline products.
	Recommended Packaging Materials :	Keep original containers.
	Not Suitable Packaging Materials :	Stainless steel or any metals.

8. Exposure Controls / Personal Protection

Technical Measures :	A ground ventilation is recommended since the vapours are heavier that air
Personal Protective Equipment :	Gloves for hands, safety goggles or facial mask for eyes, protective work suit for skin and body.
Others :	Do not eat, drink or smoke while using the product. Safety showers and eye rinse fountain should be available at work place.

9. Physical and Chemical Properties

Physical State at 20°C :	Liquid.
Colour :	Incolor
Odour :	Biting ammoniac
pH :	> 10
Melting Point :	None
Vapour Pressure :	None
Vapour Density :	None
Specific gravity :	1.020 kg/dm^3 (a 20°C)
Solubility in Water :	Limitless

10. Stability / Reactivity

Stability :	Stable in normal conditions
Hazardous Decomposition Products :	Product degrades slowly with heat or light and produce toxic fumes: NOx.

11. Toxicological Information

Acute toxicity :	Inhalation :	Noxious (NOx) : CLA/inhalation/4h/rat = 67 ppm
	Skin and eye contact :	Burns, may cause irreversible lesion to eyes.
	Ingestion :	Risk of severe irreversible effects.

12. Ecological Information

Ecotoxicology :	Polluting to water

13. Disposal Considerations

The user's attention is focused on the possibility of existence of local, regional, national or international administrative and legal dispositions relative to the disposal of this product.

Product Disposal :	Interdictions :	Do not flush into sewer system without neutralisation
Container Disposal :	Decontamination :	Make sure the containers are empty, rinse with water that should be neutralised before disposal.
	Cleaning :	
	Destruction/elimination :	Incinerate in authorised installation.

14. Transport Information

Land (RID / ADR / RTMDR / RTMDF), Sea (IMDG / IMO), Air (IACO / IATA) :

Class / Item : 43 c UN Substance Identification N°: 2672

Class : 8 Packing Group : III

15. Regulatory Information

Symbols :	Xi – irritant
Risk Phrases:	R34 - Causes burns.
	R36/37/38 - Irritating to Eyes, skin and respiratory system.
Safety Phrases :	S7 - Keep in well sealed recipient
	S26 - in case of eye contact, rinse immediately with abundant water and seek specialised medical advice.
	S38 – In case of insufficient ventilation wear suitable respiratory equipment.
	S45 - In case of accident or if you feel unwell seek medical advice immediatly, show him the label, if possible.

16. Other Information

This Safety Date Sheet is publishing with regards to the European Directive 91/155/CEE.

This Sheet completes the technical sheet of use but it doesn't replace it. The information contained in this sheet is based on our current knowledge of the product. This information is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.