

# ***MATERIAL SAFETY DATA SHEET***

## **1. PRODUCT: COLOUR BLEACH**

(Bleaching powder from light yellow to red)

Type of product and use: hair bleaching powder.

Distributed by: arteasecolors  
23207 Early Avenue  
Torrance CA 90505  
888.993.9912  
310.539.9912

## **2. COMPOSITION / INFORMATION ON INGREDIENTS**

Dangerous substances for health and as per 67/548/CEE regulation and subsequent revisions or limited exposition substance:

- |                        |               |
|------------------------|---------------|
| - Potassium persulfate | CAS 7727-21-1 |
| - Ammonium persulfate  | CAS 7727-54-0 |
| - Sodium metasilicate  | CAS 6834-92-0 |
| - Sodium persulfate    | CAS 7775-27-1 |

## **3. HAZARD IDENTIFICATION**

Classification of hazardousness



**X<sub>n</sub>**  
**O**

HARMFUL  
OXIDIZING

Specific risks for man and environment

- |           |  |
|-----------|--|
| R7        | May cause fire   |
| R20/22    | Harmful by inhalation and if swallowed                 |
| R36/37/38 | Irritating to eyes, respiratory system and skin        |
| R42/43    | May cause sensitisation by inhalation and skin contact |

#### 4. FIRST AID MEASURES



Eye contact: flush with plenty of water immediately. Remove contact lenses if used.

Immediately get medical attention.

Skin contact: rinse immediately with water. Wash the contaminated clothes before using them again. Should allergic reactions develop, consult a dermatologist.

Inhalation: Immediately remove to fresh air. If asthma develops, get medical attention.

Ingestion: rinse the mouth without swallowing. Immediately get medical attention.

#### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: water, water spray, CO<sub>2</sub>, foam. Water or water spray has to be used until complete extinguishing.

In case of big fires, wear breathing apparatus and complete protective clothing.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal protection: wear protective clothing.

Environmental precautions: local exhausting is needed to avoid production of irritating dust concentrations. Avoid penetration of the product into the soil/earth. If the product reaches watercourses and/or the drainage system, notify the proper authorities.

Measures of cleaning up spillage: maintain good manufacturer hygiene. Avoid contact with skin, eyes and clothes. In case of contact, wash immediately with water. Clean any spillage promptly and mechanically; dispose of in accordance with local and national regulations.

#### 7. HANDLING AND STORAGE

7.1 Handling: avoid the formation of irritating dust. Provide accurate dust captation and adequate ventilation/aspiration in working areas. Avoid the formation of electro-static charges.

7.2 Storage: store in a cool (below 30°C) and dry areas. Avoid contamination and avoid the presence of reducing agents like lotions and permanent waves. Discard any unused mixture with developer or bleaching lotions, since the container may break. AVOID humid organic materials such as paper towel, wood, clothes, etc..., which could induce spontaneous combustion. **Protect from heat and sunlight; store in places far from rain and humidity; never store outdoor.**

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ammonium Persulfate TLV-TWA 1 mg/m<sup>3</sup>

Potassium Persulfate TLV-TWA 0,10 mg/m<sup>3</sup>

Sodium Persulfate TLV-TWA (UK) 1 mg/m<sup>3</sup>

Precautionary measures: exhaust ventilation is required where the products are stored and/or handled. Keep far from food, drink and animal food.

Respiratory protection: not requested for normal use; you may wear a paper mask for powders. Avoid inhalation. When containers are open, protect the face. For prolonged exposures, wear a mask for harmful powders.

Skin/hands protection: wear protective gloves.

Eye protection: not requested. Avoid contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow to red powder
Odour	Characteristic
Bulk density	0.78 – 0.88 g/ml
Solubility in water	partially soluble
Melting point	not known
Boiling point	not known
Decomposition temperature	> 65°C
pH (aqueous dispersion 1g/100ml)	9,1 – 10,1
% Active Oxygen	3,50-4,10

## 10. STABILITY AND REACTIVITY

The product does not undergo decomposition if handled in accordance with regulations. The product is stable in security conditions, up to 65°C; above this temperature it slowly starts to decompose, releasing small quantities of oxygen and ammonia. At approximately 180°C decomposition becomes fast and self-accelerating, and generates oxygen which can give rise to relevant fires.

**Humidity** is a very important factor, because the product moisture – when not kept under control and not stable – can considerably lower the decomposition temperature.

Conditions to avoid: **heat, moisture**, reducing agents such as waving lotions. Avoid impacts. Do not subject to friction. May build electrostatic charges.

Incompatibilities: acids, alkali, metals, burning and combustible materials. Do not use metallic bowls or stirrers.

Hazardous decomposition products: corrosive gases/vapours; toxic gases/vapours of sulphur oxides (SO<sub>x</sub>), ammonia, nitrogen oxides (NO<sub>x</sub>) and ozone.

## 11. TOXICOLOGICAL INFORMATION

This product contains ingredients that may present health hazards. These ingredients are irritating to skin and mucous membranes of the eyes and respiratory system. They may trigger asthmatic attacks in sensitive individuals. They may induce skin sensitization and respiratory hypersensitivity.

Effects of chronic exposure: for purpose of chronic exposure under the OSHA Hazard Communication Standard, this is an untested mixture.

Target organs: skin, respiratory system.

Route of entry: inhalation, ingestion and skin.

General medical conditions, aggravated by exposure, will be related to the primary toxic (pharmacological) effect of this material; pre-existing dermatitis would be likely to get worse by a skin irritant; bronchitis is aggravated by irritant gases of particulates in the air.

The list below reports the toxicities of the main ingredients:

Ammonium Persulfate LD50 (oral rat) = 820 mg/kg

Potassium Persulfate LD50 (oral rat) = 805 mg/kg

Sodium Persulfate LD50 (oral rat) = 895 mg/kg

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhoea.

Further information: if used properly, further health hazards are not known, nor predictable.

## 12. ECOLOGICAL INFORMATION

Always follow good hygienic work practices. Avoid product dispersion in the environment. German classification of risk for waters: WGK 1 – slightly dangerous.

### Persulfates Water Toxicities

EC50(72h)	83,7 (tossicità sui batteri)
EC50(48h)	120 mg/l ( <i>daphnia</i> )
LC50(96h)	76,3 mg/l (tossicità sui pesci)

## 13. DISPOSAL CONSIDERATIONS



Do not dispose of the product together with domestic waste.

Do not let it enter the drainage system. Disposal should be in accordance with all applicable local and state regulations.

## 14. TRANSPORT INFORMATION

UN No: 1479

Road/railway transport (ADR/RID – GGVS/E)



- Class	5.1	Oxidizing solid
- Packaging group	III	
- Proper shipping name		Oxidizing solid, N.O.S. (Potassium persulfate, Ammonium persulfate)

Marine transport (IMO/IMDG)



- Class	5.1	
- Packaging group	III	
- EmS numero	F-A, S-Q	
- Proper shipping name		Oxidizing solid, N.O.S. (Potassium persulfate, Ammonium persulfate) No marine pollutant.

Air transport (ICAO/IATA)



- Class 5.1
- Packaging group III
- Proper shipping name Oxidising solid, N.O.S. (Potassium persulfate, Ammonium persulfate)

**15. REGULATORY INFORMATION**

Classification according to CEE directions:



**X<sub>n</sub>** HARMFUL  
**O** OXIDIZING

R phrases	R7	May cause fire
	R20/22	Harmful by inhalation and if swallowed
	R36/37/38	Irritating to eyes, respiratory system and skin
	R42/43	May cause sensitization by inhalation and skin contact
S phrases	S2	Keep out of reach of children
	S7/8	Keep container tightly close and dry
	S15	Keep away from heat
	S22	Do not inhale the powder
	S24/25	Avoid contact with skin and eyes
	S26	If in eyes, rinse immediately with plenty of water and seek medical advise
	S28	In case of skin contact, wash with plenty of water
S46	If swallowed, seek medical advice immediately and show this container or label	

Indications For Work Restrictions:

Follow work restrictions for young personnel (DIR 94/33/EC)

Follow work restrictions for gestating or nursing women (DIR 92/33/CEE)

## **16. FURTHER INFORMATION**

This information is based on our present state of knowledge and is intended solely to describe our productions in terms of safety requirements. It should not be construed in any way, as guaranteeing specific properties.

This safety data sheet cancels and replaces any previous edition.

March 07