



## Safety Data Sheet

### Oxidant solution

Safety Data Sheet dated 10/20/2017, version 1

#### 1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name:

Oxidant solution

Other means of identification:

Trade code:

6ES100

Recommended use of the chemical and restrictions on use

Recommended use: Surface coating

Restrictions on use:

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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

Sirca S.p.A.

Address:

Viale Roma, 85

35010 S. Dono di Massanzago (PD) - ITALY

Tel. +39 0499322311

Distributed by:

GEMINI INDUSTRIES, INC.

2300 Holloway Drive

El Reno, OK 73036

USA

Tel. 1-800-262-5710

Fax 1-405-262-9310

www.gemini-coatings.com

Competent person responsible for the safety data sheet:

safety@sirca.it

Emergency phone number

For Hazardous Materials [or Dangerous Goods] Incident


Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

1-800-424-9300 / +1 703-527-3887.

#### 2. HAZARD(S) IDENTIFICATION

Classification of the chemical

 Warning, Eye Irrit. 2A, Causes serious eye irritation.

Label elements

Hazard pictograms:



Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash your face, hands and every exposed part thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:

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HMIS rating:

HEALTH	* 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 9.9% - < 12.5% ammonium chloride

Index number: 017-014-00-8, CAS: 12125-02-9, EC: 235-186-4



A.3/2A Eye Irrit. 2A H319



A.1/4/Oral Acute Tox. 4 H302

### 4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

None in particular.



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Specific hazards arising from the chemical  
Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.  
Hazardous combustion products:  
None  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Special protective equipment and precautions for fire-fighters  
Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures  
Wear personal protection equipment.  
Remove all sources of ignition.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Provide adequate ventilation.  
Remove persons to safety.  
Use appropriate respiratory protection.  
See protective measures under point 7 and 8.  
Methods and materials for containment and cleaning up  
Wash with plenty of water.

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### 7. HANDLING AND STORAGE

Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Do not use on extensive surface areas in premises where there are occupants.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.  
Conditions for safe storage, including any incompatibilities  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.  
Storage temperature:  
Store at ambient temperature.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters  
ammonium chloride - CAS: 12125-02-9  
ACGIH - TWA(8h): 10 mg/m<sup>3</sup> - STEL: 20 mg/m<sup>3</sup> - Notes: Eye and URT irr  
DNEL Exposure Limit Values  
N.A.  
PNEC Exposure Limit Values  
N.A.  
Appropriate engineering controls:  
None  
Individual protection measures  
Eye protection:  
Use close fitting safety goggles, don't use eye lens.  
Protection for skin:  
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.  
Protection for hands:  
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.  
Respiratory protection:  
Not needed for normal use.  
Thermal Hazards:  
None

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: liquid  
Odour: characteristic  
Odour threshold: N.A.  
pH: N.A.  
Melting point / freezing point: < 1° C



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Initial boiling point and boiling range:	> 55° C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	> 93°C (> 199.4 ° F)
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.0340 Kg/l a 20°C
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250° C
Decomposition temperature:	N.A.
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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### 10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction is stored and used appropriately.
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None.

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### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Toxicological information of the product:	N.A.
Toxicological information of the main substances found in the product:	ammonium chloride - CAS: 12125-02-9
a) acute toxicity:	Test: LD50 - Route: Oral - Species: Rat = 1410 mg/kg
Substance(s) listed on the NTP report on Carcinogens:	None.
Substance(s) listed on the IARC Monographs:	None.
Substance(s) listed as OSHA Carcinogen(s):	None.
Substance(s) listed as NIOSH Carcinogen(s):	None.

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### 12. ECOLOGICAL INFORMATION

Ecotoxicity	Adopt good working practices, so that the product is not released into the environment. N.A.
Persistence and degradability	N.A.
Bioaccumulative potential	N.A.
Mobility in soil	N.A.
Other adverse effects	None

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### 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods	Recover if possible. In so doing, comply with the local and national regulations currently in force.
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### 14. TRANSPORT INFORMATION

6ES100/1

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UN number  
Not classified as dangerous within the meaning of transport regulations.  
UN proper shipping name  
N.A.  
Transport hazard class(es)  
N.A.  
Packing group  
N.A.  
Environmental hazards  
ADR-Environmental pollutant: No  
IMDG-Marine pollutant: No  
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)  
No  
Special precautions  
N.A.

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### 15. REGULATORY INFORMATION

#### USA - Federal regulations

TSCA - Toxic Substances Control Act  
List of substances not included in the TSCA inventory: ammonium chloride.  
TSCA listed substances:  
ammonium chloride is listed in TSCA Section 8a - CAIR.  
SARA - Superfund Amendments and Reauthorization Act  
Section 302 – Extremely Hazardous Substances: no substances listed.  
Section 304 – Hazardous substances: no substances listed.  
Section 313 – Toxic chemical list: no substances listed.  
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
Substance(s) listed under CERCLA: ammonium chloride - Reportable quantity: 5000 pounds.  
Reportable quantity for mixture: 50000 pounds.  
CAA - Clean Air Act  
CAA listed substances:  
None.  
CWA - Clean Water Act  
CWA listed substances:  
ammonium chloride is listed in CWA Section 311.

#### USA - State specific regulations

California Proposition 65  
Substance(s) listed under California Proposition 65:  
None.  
Massachusetts Right to know  
Substance(s) listed under Massachusetts Right to know:  
ammonium chloride.  
New Jersey Right to know  
Substance(s) listed under New Jersey Right to know:  
ammonium chloride.  
Pennsylvania Right to know  
Substance(s) listed under Pennsylvania Right to know:  
ammonium chloride.

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### 16. OTHER INFORMATION

Text of phrases referred to under heading 3:  
H319 Causes serious eye irritation.  
H302 Harmful if swallowed.

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#### Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.  
This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.



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IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average