

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 30.10.2020

Version number 1

Revision: 30.10.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****· 1.1 Product identifier**

· **Trade name:** *Persulfate d'ammonium, bag for 1 litre, Ref : AR44*  
*Ammonium persulfate, sachet dose 1 litre Réf : AR44*

· **CAS Number:**  
7727-54-0

· **EC number:**  
231-786-5

· **Index number:**  
016-060-00-6

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*

· **Application of the substance / the preparation :** *Substance*

**· 1.3 Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

*CIF*  
*240 rue Hélène Boucher*  
*78530 BUC*  
*Tél : 01.39.66.96.83 – Fax 01.33.66.97.78*  
*E-mail : cif@cif.fr – Web : www.cif.fr*

**· 1.4 Emergency telephone number:**

*France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59*  
*Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24)*  
*UK : +44 (0)-870-190-6777 (CARECHEM24)*

**SECTION 2: Hazards identification****· 2.1 Classification of the substance or mixture**

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



*GHS03*

*Ox. Sol. 3 H272 May intensify fire; oxidiser.*



*GHS08*

*Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*



*GHS07*

*Acute Tox. 4 H302 Harmful if swallowed.*

*Skin Irrit. 2 H315 Causes skin irritation.*

*Eye Irrit. 2 H319 Causes serious eye irritation.*

*Skin Sens. 1 H317 May cause an allergic skin reaction.*

*STOT SE 3 H335 May cause respiratory irritation.*

**· 2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

*The substance is classified and labelled according to the CLP regulation.*

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· **Hazard pictograms**



GHS03 GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**  
*diammonium peroxodisulphate*

· **Hazard statements**

*H272 May intensify fire; oxidiser.*

*H302 Harmful if swallowed.*

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

*H317 May cause an allergic skin reaction.*

*H335 May cause respiratory irritation.*

· **Precautionary statements**

*P221 Take any precaution to avoid mixing with combustibles.*

*P284 [In case of inadequate ventilation] wear respiratory protection.*

*P220 Keep/Store away from clothing/combustible materials.*

*P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*

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

*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*P264 Wash hands thoroughly after handling.*

*P270 Do not eat, drink or smoke when using this product.*

*P271 Use only outdoors or in a well-ventilated area.*

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

*P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.*

*P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*P333+P313 If skin irritation or rash occurs: Get medical advice/attention.*

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

*P302+P352 IF ON SKIN: Wash with plenty of water.*

*P403+P233 Store in a well-ventilated place. Keep container tightly closed.*

*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

**SECTION 3: Composition/information on ingredients**

· **3.1 Chemical characterisation: Substances**

· **CAS No. Description**

*7727-54-0 diammonium peroxodisulphate*

· **Identification number(s)**

· **EC number:** *231-786-5*

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· **Index number:** 016-060-00-6

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#### **SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **General information:**

*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

· **After excessive inhalation:**

*Supply fresh air and to be sure call for a doctor.*

*In case of unconsciousness place patient in a stable laying down side position for transportation.*

· **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*

· **After eye contact:**

*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

· **After swallowing:**

*Do not induce vomiting; call for medical help immediately.*

*Call for a doctor immediately.*

· **4.2 Most important symptoms and effects, both acute and delayed :**

*No further relevant information available.*

· **4.3 Indication of any immediate medical attention and special treatment needed :**

*No further relevant information available.*

#### **SECTION 5: Firefighting measures**

· **5.1 Suitable extinguishing agents:**

*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

· **5.2 Special hazards arising from the substance or mixture :** *No further relevant information available.*

· **5.3 Advice for firefighters**

· **Protective equipment:** *No special measures required.*

#### **SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures :** *Not required.*

· **6.2 Environmental precautions:** *Do not allow the product to enter sewers/ surface water or ground water.*

· **6.3 Methods and material for containment and cleaning up:**

*Dispose contaminated material as waste according to item 13.*

*Ensure adequate ventilation.*

· **6.4 Reference to other sections :**

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protective equipment.*

*See Section 13 for disposal information.*

#### **SECTION 7: Handling and storage**

· **7.1 Precautions for safe handling :**

*Ensure good ventilation/exhaustion at the workplace.*

*Prevent formation of dust.*

· **Information about fire - and explosion protection:** *No special measures required.*

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s) :** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see section 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:** Not required.

- **Additional information:**

The most current valid lists have been used as a basis for the production of this document.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from food, beverages and petfood.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

- **Gloves material :**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Eye protection:**



Tightly sealed goggles

### **SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Crystalline

**Colour:** White

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· <b>Odour:</b>	<i>Odourless</i>
· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>pH-value at 20 °C:</b>	<i>1,45</i>
· <b>Change in condition</b>	
<i>Melting point/Melting range:</i>	<i>&lt;160 °C</i>
<i>Boiling point/Boiling range:</i>	<i>Undetermined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gaseous):</b>	<i>Contact with combustible material may cause fire.</i>
· <b>Ignition temperature:</b>	<i>Not applicable.</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Self-igniting:</b>	<i>Not determined.</i>
· <b>Danger of explosion:</b>	<i>Product does not present an explosion hazard.</i>
· <b>Explosion limits:</b>	
<i>Lower:</i>	<i>Not determined.</i>
<i>Upper:</i>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not applicable.</i>
· <b>Density at 20 °C:</b>	<i>1,982 g/cm<sup>3</sup></i>
· <b>Bulk density at 20 °C:</b>	<i>950-1050 kg/m<sup>3</sup></i>
· <b>Relative density :</b>	<i>Not determined.</i>
· <b>Vapour density :</b>	<i>Not applicable.</i>
· <b>Evaporation rate :</b>	<i>Not applicable.</i>
· <b>Solubility in / Miscibility with water at 20 °C:</b>	<i>559 g/l</i>
· <b>Segregation coefficient (n-octanol/water):</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
<i>Dynamic:</i>	<i>Not applicable.</i>
<i>Kinematic:</i>	<i>Not applicable.</i>
· <b>9.2 Other information :</b>	<i>No further relevant information available.</i>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions :** *No dangerous reactions known.*
- **10.4 Conditions to avoid :** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

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### SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity**

*Harmful if swallowed.*

· **LD/LC50 values relevant for classification:**

**7727-54-0 diammonium peroxodisulphate**

Oral	LD50	820 mg/kg (rat)
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· **Primary irritant effect:**

· **On the skin:**

*Causes skin irritation.*

· **On the eyes:**

*Causes serious eye irritation.*

· **Respiratory or skin sensitisation**

*May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

*May cause an allergic skin reaction.*

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*

· **Carcinogenicity** *Based on available data, the classification criteria are not met.*

· **Reproductive toxicity** *Based on available data, the classification criteria are not met.*

· **STOT-single exposure**

*May cause respiratory irritation.*

· **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*

· **Aspiration hazard** *Based on available data, the classification criteria are not met.*

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** *No further relevant information available.*

· **12.2 Persistence and degradability :** *No further relevant information available.*

· **12.3 Bioaccumulative potential :** *No further relevant information available.*

· **12.4 Mobility in soil :** *No further relevant information available.*

· **Additional ecological information:**

· **General notes:**

*Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.*

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

*Throwing away bigger amounts into drains or aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the diluted product use, the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only slightly polluting for water.*

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

· **12.6 Other adverse effects :** *No further relevant information available.*

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### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation :**



*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*

· **Uncleaned packaging:**

· **Recommendation:** *Disposal must be made according to official regulations.*

· **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1444

· **14.2 UN proper shipping name**

· **ADR**

UN1444 AMMONIUM PERSULPHATE

· **IMDG**

AMMONIUM PERSULPHATE

· **IATA**

Ammonium persulfate

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

5.1 (O2) Oxidising substances.

· **Label**

5.1

· **IMDG, IATA**



· **Class**

5.1 Oxidising substances.

· **Label**

5.1

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Warning: Oxidising substances.

· **Danger code (Kemler):**

50

· **EMS Number:**

F-A,S-Q

· **Segregation groups**

Ammonium compounds

· **Stowage Category**

A

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- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** *Not applicable.*
- **Transport/Additional information:**
- **ADR**
- **Limited quantities (LQ)** *5 kg*
- **Excepted quantities (EQ)** *Code: E1*
- Maximum net quantity per inner packaging: 30 g*
- Maximum net quantity per outer packaging: 1000 g*
- **Transport category** *3*
- **Tunnel restriction code** *E*
- **IMDG**
- **Limited quantities (LQ)** *5 kg*
- **Excepted quantities (EQ)** *Code: E1*
- Maximum net quantity per inner packaging: 30 g*
- Maximum net quantity per outer packaging: 1000 g*
- **UN "Model Regulation":** *UN 1444 AMMONIUM PERSULPHATE, 5.1, III*

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *Substance is not listed.*
- **Seveso category P8** *OXIDISING LIQUIDS AND SOLIDS*
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** *50 t*
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** *200 t*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances CAS:*

*Chemical Abstracts Service (division of the American Chemical Society) LC50:*

*Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Ox. Sol. 3: Oxidising Solids, Hazard Category 3*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*

*Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*

*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*