

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 29.06.2010

Revision: 29.06.2010

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name: OXALIC ACID**

- **Application of the substance / the preparation**

The substance is used in household cleaners, rustproofing treatments, wood restorers, in dyeing process and as an insecticide.

- **Manufacturer/Supplier:**

PLATER CHEMICALS Ltd
Alrewas House, Main Street
Alrewas
Burton on Trent
DE13 7ED
Staffordshire
UK

Tel: (0044) 1283 792600

Fax: (0044) 1283 792041

e-mail: sales@platerchemicals.co.uk

- **Further information obtainable from:** Product safety department.

- **Information in case of emergency:** Tel: (0044) 1283 792600 (not 24 hours)

2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**

R 21/22 Harmful in contact with skin and if swallowed.

- **GHS label elements**



Warning

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

- **Prevention:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

- **Response:**

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

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

- **Storage:**

P402+P404 Store in a dry place. Store in a closed container.

- **Disposal:**

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

3 Composition/information on ingredients

- **Chemical characterization:**

- **CAS No. Description**

144-62-7 Oxalic acid

- **Identification number(s)**

- **EINECS Number:** 205-634-3

- **Index number:** 607-006-00-8

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4 First aid measures

· General information:

Immediately remove any clothing soiled by the product.

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

As little as 71 mg/kg body weight may be fatal if ingested.

· After inhalation:

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

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

· Information for doctor:

Treat symptomatically and supportively.

Antidote: intravenous administration of calcium gluconate or calcium chloride may be required if hypocalcemia or hypocalcemic tetany occur.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards caused by the substance, its products of combustion or resulting gases:

Combustible. Gives off irritating or toxic fumes (or gases) in a fire.

Formic acid may be released in a fire situation.

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Person-related safety precautions:

Avoid formation of dust.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· Measures for environmental protection:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - Prevent formation of dust.
 - Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Protect from heat.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Prevent any seepage into the ground.
 - Store in a cool location.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from oxidizing agents.
- **Further information about storage conditions:**
 - Protect from humidity and water.
 - Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

144-62-7 Oxalic acid

WEL	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
 - Select PPE appropriate for the operations taking place taking into account the product properties.
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - Do not eat, drink, smoke or sniff while working.
 - Storing food in the working area is prohibited.
 - Do not breath dust
- **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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
 - 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.
- **Penetration time of glove material**
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

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· **Body protection:** Impervious protective clothing

9 Physical and chemical properties

· General Information

Form:	Powder
Colour:	White
Odour:	Odourless

· Change in condition

Melting point/Melting range: 189.5(decomp)°C
Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Product is not flammable.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 40°C:** 0.4 hPa

· **Density:** 1.9 g/cm³

· **Solubility in / Miscibility with water at 25°C:** 220 g/l

· **pH-value (100 g/l) at 20°C:** 1.0

· **Additional information:** Octanol/water partition coefficient as log Pow: -0.7 (estimated)

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

On contact with hot surfaces or flames this substance decomposes forming formic acid and carbon monoxide.

· Materials to be avoided:

Strong oxidising agents.

Strong bases.

Mercury, hypochlorite, silver, chlorites and furfuryl alcohol.

· Dangerous reactions

The solution in water is a medium strong acid. Reacts violently with strong oxidants causing fire and explosion hazard. Reacts with some silver compounds to form explosive silver oxalate.

· Dangerous decomposition products:

Carbon monoxide and carbon dioxide

Formic acid

11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

144-62-7 Oxalic acid

Oral	LD50	375 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

· Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

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- **Subacute to chronic toxicity:**

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the kidneys, resulting in stones.

- **Additional toxicological information:**

ROUTES OF ENTRY: The substance can be absorbed into the body by inhalation of its solution aerosol/dust and by ingestion.

Inhalation of aerosol/dust may cause lung oedema. The substance may cause effects on the kidneys. Excessive exposure may result in death. Medical observation is indicated.

12 Ecological information

- **Information about elimination (persistence and degradability):** biodegradable

- **Behaviour in environmental systems:**

- **Mobility and bioaccumulation potential:** Product is not expected to bioaccumulate.

- **Additional ecological information:**

- **General notes:**

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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.

13 Disposal considerations

- **Product:**

- **Recommendation**

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

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

- **European waste catalogue**

Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined.

Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

- **Uncleaned packaging:**

- **Recommendation:**

Container remains hazardous when empty. Continue to observe all precautions.

Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 Corrosive substances.

- **Danger code (Kemler):** 60

- **UN-Number:** 3261

- **Packaging group:** III

- **Hazard label:** 8

- **Description of goods:** 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Oxalic acid)

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· **Tunnel restriction code E**· **Maritime transport IMDG:**

- **IMDG Class:** 8
- **UN Number:** 3261
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-A
- **Marine pollutant:** No
- **Proper shipping name:** CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Oxalic acid)

· **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 8
- **UN/ID Number:** 3261
- **Label** 8
- **Packaging group:** III
- **Proper shipping name:** CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Oxalic acid)

· **UN "Model Regulation":** UN3261, CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., 8, III

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xn Harmful

· **Risk phrases:**

21/22 Harmful in contact with skin and if swallowed.

· **Safety phrases:**

2 Keep out of the reach of children.

24/25 Avoid contact with skin and eyes.

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.

· **Department issuing MSDS:** Product safety department.

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