



<b>SECTION 1 : Identification of the substance/mixture and of the company/undertaking</b>
---

- 1.1 Product Identifier**  
 Product Name : Metal Stain Remover  
 Datasheet Number : SDS058  
 Unique Formula Identifier: HY40-70PJ-S004-S4HJ
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 Product category PC35 Washing and cleaning products (including solvent based products)  
 Application of the substance / the mixture Concentrated stain remover for swimming pool surfaces
- 1.3 Details of the supplier of the safety data sheet**  
 Name of Supplier Plastica Ltd  
 Address of Supplier Perimeter House, Napier Road  
 St Leonards-on-Sea, East Sussex  
 TN38 9NY, United Kingdom  
 Telephone +44 (0) 1424 857857  
 E-mail (competent person) info@plasticapools.net
- 1.4 Emergency Telephone Number**  
 Emergency Phone No 0800 043 0891 (Technical) 24 Hours a day  
 0800 043 0892 (Emergency)  
 Languages Spoken English
- Members of the public seeking specific information on poisons should contact:  
 In England and Wales: NHS 111 - dial 111  
 In Scotland: NHS 24 - dial 111

<b>SECTION 2 : Hazards Identification</b>
---

- 2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**
-   
 Eye Dam. 1 H318 Causes serious eye damage.
-   
 Skin Irrit. 2 H315 Causes skin irritation.  
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects
- 2.2 Label elements**  
**Labelling according to Regulation (EC) No 1272/2008**  
**The product is classified and labelled according to the GB CLP regulation.**  
 Hazard Pictograms GHS05  
 Signal Word(s) Danger
- Hazard-determining components of labelling:** Oxalic acid

## 2.2 cont..

**Hazard Statement(s)**

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dust.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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.

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:**

Mixtures

**Description:**

Mixture of substances listed below with nonhazardous additions.

**Dangerous Components**

Substance	CAS No	EC No	EINECS No	%W/W
Sulphamic acid	5329-14-6		226-218-8	50-100%
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	77-92-9		201-069-1	2.5-<10%
Oxalic acid	144-62-7		205-634-3	3-10%

Sulphamic acid

Skin Irrit. 2, H315;  
 Eye Irrit. 2, H319;  
 Aquatic Chronic 3, H412

1,2,3-Propanetricarboxylic acid, 2-hydroxy-

Eye Irrit. 2, H319;  
 STOT SE 3, H335

Oxalic acid

Eye Dam. 1, H318;  
 Acute Tox. 4, H302  
 Acute Tox. 4, H312

**Additional information:**

For the wording of the listed hazard phrases refer to section 16.

## SECTION 4 : First Aid Measures

- 4.1 **Description of first aid measures**
- General Information:**
- After inhalation: Immediately remove any clothing soiled by the product. Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. 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. Do not induce vomiting; call for medical help immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration
- Information for doctor: Treat symptomatically and supportively.
- Antidote for oxalic acid: intravenous administration of calcium gluconate or calcium chloride may be required if hypocalcemia or hypocalcemic tetany occur.
- 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 **Extinguishing Media :**
- Suitable Extinguishing Agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray. Use fire extinguishing methods suitable to surrounding conditions.
- Unsuitable Extinguishing Media: Water with full jet
- 5.2 **Special hazards arising from the substance or mixture :**
- During heating or in case of fire poisonous gases are produced. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
- 5.3 **Advice for Firefighters :**
- Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device. Wear fully protective suit.
- Additional information** Cool endangered receptacles with water spray.

## SECTION 6 : Accidental Release Measures

- 6.1 **Personal precautions, protective equipment and emergency procedures :**
- Ensure adequate ventilation  
Avoid formation of dust  
Wear protective equipment.  
Keep unprotected persons away.

- |     |  |  |
|-----|--|--|
| 6.2 | <b>Environmental Precautions:</b>                            | Do not allow to penetrate the ground/soil.<br>Do not allow product to reach sewage system or any water course in the undiluted form.<br>Inform respective authorities in case of seepage into water course or sewage system. |
| 6.3 | <b>Methods and material for containment and cleaning up:</b> | Pick up mechanically.<br>Send for recovery or disposal in suitable receptacles.  |
| 6.4 | <b>Reference to other sections</b>                           | See Section 7 for information on safe handling.<br>See Section 8 for information on personal protection equipment.<br>See Section 13 for disposal information.   |

<b>SECTION 7 : Handling and Storage</b>
---

- |     |                               |  |
|-----|-------------------------------|--|
| 7.1 | Precautions for safe handling | Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.<br>Keep away from heat and direct sunlight.<br>Ensure good ventilation/exhaustion at the workplace.<br>Prevent formation of dust. |
|-----|-------------------------------|--|

**Information about fire - and explosion protection:**

Dust can combine with air to form an explosive mixture.

- |     |   |
|-----|---|
| 7.2 | <b>Conditions for safe storage, including any incompatibilities</b> |
|-----|---|

**Requirements to be met by storerooms and receptacles:**

Prevent any seepage into the ground

**Information about storage in one common storage facility:**

Store away from oxidising agents.

**Further information about storage conditions:**

Protect from humidity and water.  
Store in cool, dry conditions in well sealed receptacles.  
Store in a bunded area.

**Storage class:**

8 A

- |     |                            |  |
|-----|----------------------------|--|
| 7.3 | <b>Specific end use(s)</b> | No further relevant information available. |
|-----|----------------------------|--|

<b>SECTION 8 : Exposure Controls/Personal Protection</b>
--

- |     |  |   |
|-----|--|---|
| 8.1 | <b>Control Parameters</b>  |   |
|     | <b>Additional information about design of technical facilities:</b>            | No further data; see item 7.  |
|     | <b>Ingredients with limit values that require monitoring at the workplace:</b> |   |
|     | 144-62-7 Oxalic acid   |   |
|     | WEL  | Short-term value: 2 mg/m <sup>3</sup><br>Long-term value: 1 mg/m <sup>3</sup> |

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**  
**Personal protective equipment:**  
**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
 Take note of assigned Workplace Exposure Limits.  
 Ensure that eyewash stations and safety showers are close to the workstation location.  
 Do not eat, drink, smoke or sniff while working.  
 Do not breathe dust  
 Keep away from foodstuffs, beverages and feed.  
 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:**

Use suitable respiratory protective device in case of insufficient ventilation.  
 Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  
 If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye Protection**

Tightly sealed goggles

**Body protection:**

Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

**SECTION 9 : Physical and Chemical Properties**

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

General Information

Appearance:

Form:	Powder
Colour:	Whitish
Odour:	Mild
Odour threshold:	Not determined.
pH-value:	Not applicable.

## 9.1 cont..

Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined
Flash point:	Cannot support combustion.
Flammability (solid, gas):	Not determined.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Soluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC (EC)	4.80 %

9.2 **Other Information:** NOTE: The physical data presented above are typical values and should not be construed as a specification.

<b>SECTION 10 : Stability and Reactivity</b>
--

10.1	<b>Reactivity</b>	No further relevant information available.
10.2	<b>Chemical stability Thermal decomposition / conditions to be avoided:</b>	Decomposes on heating, producing toxic fumes
10.3	<b>Possibility of hazardous reactions:</b>	Reacts with chlorine.
10.4	<b>Conditions to avoid:</b>	No further relevant information available.
10.5	<b>Incompatible materials:</b>	Strong oxidising agents. Mercury Hypochlorous acid and Hypochlorites Nitric acid Cyanides Sulphides Silver Chlorites Furfuryl alcohol
10.6	<b>Hazardous decomposition products:</b>	Sulphur oxides (SO <sub>x</sub> ) Nitrogen oxides (NO <sub>x</sub> ) Ammonia Carbon monoxide and carbon dioxide Formic acid

## SECTION 11 : Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met

#### LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)	Oral	LD50	9,375 mg/kg
5329-14-6 Sulphamic acid	Dermal	LD50	>2,000 mg/kg (rabbit)

#### Primary irritant effect:

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

#### Additional toxicological information:

**ROUTES OF EXPOSURE:** Can be absorbed into the body by inhalation and by ingestion.

Inhalation of oxalic acid aerosol/dust may cause lung oedema.

The substance may cause effects on the kidneys.

Excessive exposure may result in death. Medical observation is indicated.

The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort.

Rest and medical observation is therefore essential.

Immediate administration of an appropriate inhalation therapy by a doctor or a person authorised by him/her, should be considered.

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

**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:	5329-14-6 Sulphamic acid
	EC50 (96 h) 71.6 mg/kg (daphnia)

### 12.2 Persistence and degradability

The organic portion of the product is biodegradable.

### 12.3 Bioaccumulative potential

Product is not expected to bioaccumulate.

### 12.4 Mobility in soil

No further relevant information available.

#### Ecotoxicological effects:

**Remark:** Harmful to fish

#### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

**12.6 Other adverse effects**

No further relevant information available.

<b>SECTION 13 : Disposal Considerations</b>
---

**13.1 Waste treatment methods****Recommendation**

Recommended Hierarchy of Controls:

Minimise waste;

Reuse if not contaminated;

Recycle, if possible; or

Safe disposal (if all else fails).

Contact waste processors for recycling information.

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

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.

**Uncleaned packaging:****Recommendation:**

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

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating.

Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

**Recommended cleansing agents :**

Water, if necessary together with cleansing agents

<b>SECTION 14 : Transport Information</b>
---

**14.1 UN-Number**

ADR, IMDG, IATA

UN1759

**14.2 UN proper shipping name**

ADR

1759 CORROSIVE SOLID, N.O.S.

IMDG, IATA

CORROSIVE SOLID, N.O.S.

**14.3 Transport hazard class(es)**

ADR, IMDG, IATA



Class

8 Corrosive substances.

Label

8

**14.4 Packing group**

ADR, IMDG, IATA

III

**14.5 Environmental hazards:**

Marine pollutant:

No



14.6	<b>Special precautions for user</b>	Warning: Corrosive substances.
	<b>Hazard identification number (Kemler code):</b>	80
	<b>EMS Number:</b>	F-A,S-B
	<b>Segregation groups</b>	(SGG1) Acids
	<b>Stowage Category</b>	A
	<b>Segregation Code</b>	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
14.7	<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
	<b>Transport/Additional information:</b>	DO NOT transport wet or damp product.
	<b>ADR</b>	
	<b>Limited quantities (LQ)</b>	5 kg
	<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
	<b>Transport category</b>	3
	<b>Tunnel restriction code</b>	E
	<b>IMDG</b>	
	<b>Limited quantities (LQ)</b>	5 kg
	<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
	<b>UN "Model Regulation":</b>	UN 1759 CORROSIVE SOLID, N.O.S., 8, III

<b>SECTION 15 : Regulatory Information</b>
--

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 Directive 2012/18/EU  
 Named dangerous substances - ANNEX I None of the ingredients is listed.
- 15.2 **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

<b>SECTION 16 : Other Information</b>
---------------------------------------

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.

**Relevant phrases**

H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:** Product safety department

16 Cont..

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

ELINCS: European List of Notified 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

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3