

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: 336
CAS No: Not applicable.
EC No: Not applicable.
REACH Registration No: Not known.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s): For the electrolytic chemical etching of metals
Uses Advised Against : None.

1.3 Details of the supplier of the safety data sheet

Manufacturer
Company Identification: Pryor Marking Technology
Address of Manufacturer: Global HQ: Egerton Street
Sheffield
UK
Postal code: S1 4JX
Telephone: +44 (0) 1142766044
Fax: +44 (0)1142766890
E-mail: info@pryormarking.com
Office hours: 8:30-17:00

1.4 Emergency telephone number +44 (0)1142766044 Monday to Thursday, 08:30 - 17:30 GMT
(08:30 - 15:30 Friday), English

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Irrit. 2; H315
Skin Sens. 1; H317
Eye Irrit. 2; H319
Carc. 1A; H350
Repr. 1B; H360
STOT RE 2; H373
Aquatic Chronic 3; H412

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)
Product Name 336



Hazard Pictogram(s)
Signal Word(s)
Hazard Statement(s)

GHS08

GHS07

Danger

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H350: May cause cancer by inhalation.

H360: May damage the unborn child

H373: May cause damage to organs through prolonged or repeated exposure .

Precautionary Statement(s)

H412: Harmful to aquatic life with long lasting effects

P201: Obtain special instructions before use.

P261: Avoid breathing mist/vapours/spray.

P264: Wash hands thoroughly after handling.

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

P308+P313: IF exposed or concerned: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse

P501: Dispose of contents/container to hazardous waste.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
sodium nitrate	7631-99-4	231-554-3	5-10	Ox. Sol. 3 H272 Eye Irrit. 2 H319	GHS03 GHS07
sodium hydroxide	1310-73-2	215-185-5	0.1-1	Skin Corr. 1A H314	GHS05
nickel dinitrate	13138-45-9	236-068-5	0.1-1	Ox. Sol. 2 H272 Acute Tox. 4 H302	GHS03 GHS08

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
				Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 4 H332 Resp. Sens. 1 H334 Muta. 2 H341 Carc. 1A H350 Repr. 1B H360 STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS07 GHS05 GHS09

For full text of H Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove to fresh air. Get medical attention if any discomfort continues.
Skin Contact	Remove contaminated clothing immediately. Wash affected area with copious amounts of soap and water. Seek medical advice. Discard or wash thoroughly contaminated clothing.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, seek medical advice.
Ingestion	Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Allergic contact dermatitis. Serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

If exposed or concerned, seek medical attention. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for containment and later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Prevent material from entering surface waters, drains and soil.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

For the electrolytic chemical etching of metals

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Source UK EH40/2011 Workplace exposure limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Sodium hydroxide	1310-73-2				2	
Nickel and its inorganic compounds water-insoluble nickel compounds (as Ni)			0.1			Sk

Sk = Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection

Wear safety glasses with side protection (EN166) or goggles giving complete protection to eyes.



Skin protection

Wear suitable gloves (eg. Disposable nitrile, PVC)



Respiratory protection

Full-/Half-/quarter-face masks (DIN EN 136/140)

Thermal hazards

None known.

8.2.3. Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid.
	Colour: Colourless.
Odour:	Not known.
Odour threshold:	Not known.
pH:	Not known.
Melting point/freezing point:	Not known.
Initial boiling point and boiling range:	Not known.
Flash Point:	Not known.
Evaporation rate:	Not known.
Flammability (solid, gas):	Not known.
Upper/lower flammability or explosive limits:	Not known.
Vapour pressure:	Not known.
Vapour density:	Not known.
Density (g/ml):	Not known.
Relative density:	Not known.
Solubility(ies):	Solubility (Water) : Soluble Solubility (Other) : Not known.
Partition coefficient: n-octanol/water:	Not known.
Auto-ignition temperature:	Not known.

Decomposition Temperature (°C):	Not known.
Viscosity:	Not known.
Explosive properties:	Not known.
Oxidising properties:	Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Oxides of nitrogen may be generated if the substance is involved in a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified.
Acute toxicity - Skin Contact	Calculated acute toxicity estimate (ATE) - >5000mg/kg bw
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Calculated acute toxicity estimate (ATE) >1200 mg/l
Skin sensitization data	Calculation method. Causes skin irritation.
Respiratory sensitization data	Calculation method : Causes serious eye irritation.
Germ cell mutagenicity	Calculation method : May cause an allergic skin reaction.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Calculation method : May damage the unborn child.
Aspiration hazard	Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity - Aquatic invertebrates	Harmful to aquatic life with long term effects.
Toxicity - Fish	Not known
Toxicity - Algae	Not known
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2. Persistence and Degradation

Not known.

12.3. Bioaccumulative potential

Not known.

12.4. Mobility in soil

Not known.

12.5. Results of PBT and vPvB assessment

Not known.

12.6 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Candidate List of Substances of Very High Concern for Authorisation	Not listed
REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed
Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer	Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals
National regulations - Other

Not listed
Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Hazard Pictogram(s)



Hazard Statement(s)

H272: May intensify fire; oxidiser
H301: Toxic if swallowed
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage
H319: Causes serious eye irritation.
H332: Harmful if inhaled
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H350: May cause cancer by inhalation.
H360: May damage the unborn child
H372: Causes damage to organs through prolonged or repeated exposure
H373: May cause damage to organs through prolonged or repeated exposure .
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects H411: Toxic to aquatic life with long lasting effects
H412: Harmful to aquatic life with long lasting effects
P201: Obtain special instructions before use.
P261: Avoid breathing mist/vapours/spray.
P264: Wash hands thoroughly after handling.
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
P308+P313: IF exposed or concerned: Get medical advice/attention.

Precautionary Statement(s)

P362+P364: Take off contaminated clothing and wash it before reuse
P501: Dispose of contents/container to hazardous waste.

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