Non-mandated SDS, supplied for information only.

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

1.1 Product identifier

Product Name: PAE 5 (Aerospace)

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 known.

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

Supplier

Company Identification:	Pryor Technologie
Address of Manufacturer:	6 Avenue de Norvege, 91140 Villebon-sur-Yvette, BP48, France
Telephone:	+33 (0)1 69 28 50 45
E-mail	info@pryortechnologie.fr

1.4 Emergency telephone number

+44 (0)1142766044
Monday to Thursday, 08:30 - 17:30 GMT
Friday, 08:30 - 15:30, 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) and GB-CLP Regulation, UK SI 2019/720 2020/1567

Not classified

For full text see section 16.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP) and GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard Pictogram(s)	None
Signal Word(s)	None
Hazard Statement(s)	None
Precautionary Statement(s)	None
Supplementary Hazard Information (EU)	None
Hazard Determining Component(s)	None

2.3 Other hazards

The product does not contain substances assessed to be PBT, vPvB or endocrine disrupting.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No. / EC No. / Index No.	REACH Registration No.	%W/W	Classification according to Regulation EC 1272/2008 (CLP)	Notes
Sodium Nitrate	7631-99-4 231-554-3	01-2119488221-41-XXXX	< 2	Ox. Sol. 3 H272 Eye Irrit. 2 H319	
Sodium Nitrite	7632-00-0 231-555-9 007-010-00-4	-	< 1	Ox. Sol. 2 H272 Acute Tox. 3 H301 Eye Irrit. 2 H319 Aquatic Acute 1 H400	-

For full text of H Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes	If medical advice is needed, have the safety data sheet or product container or label at hand.
Inhalation	Remove to fresh air. Get medical attention if any discomfort continues.
Skin Contact	Flush with water. Seek medical attention if irritation persists.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Ingestion	Do not induce vomiting. Seek medical attention if feeling unwell.

Self-protection of the first aider	No action shall be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

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 later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with skin and eyes. Wear eye protection and 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. Put into suitable labelled containers for disposal. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See also Sections 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear suitable personal protective equipment, see Section 8.
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 EH40/2005, 4th edition 2020. Workplace exposure limits
No Occupational Exposure Limits assigned.

Predicted No Effect Concentration (PNEC)

	Sodium Nitrate
Freshwater	No hazard identified
Freshwater (Intermittent releases)	-
Marine water	No hazard identified
STP	18 mg/L

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 and Face Protection

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

Skin protection – hand

Gloves should be worn where repeated or prolonged contact can occur. Use chemical resistant protective gloves (EN374-1). Recommended: Nitrile Rubber.

Skin protection - other

Long sleeve protective clothing.

Respiratory protection

Normally no personal respiratory protection is necessary.

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

(a) Physical state:	Liquid
(b) Colour	Colourless
(c) Odour	Mild
Odour threshold:	No data available
(d) Melting point/freezing point	No data available
(e) Boiling point or initial boiling point and boiling range	No data available
(f) Flammability	Not flammable
(g) Lower and upper explosion limit	Not applicable
(h) Flash point	Not applicable
(i) Auto-ignition temperature	Not applicable
(j) Decomposition temperature	No data available
(k) pH	6.38
(l) Kinematic viscosity	No data available
(m) Solubility	Solubility (Water) : Miscible
(n) Partition coefficient n-octanol/water (log value)	Not applicable
(o) Vapour pressure	No data available
(p) Density and/or relative density	No data available
(q) Relative vapour density	No data available
(r) Particle characteristics	Not applicable

9.2 Other information

Information with regard to physical hazard classes	
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising
Other safety characteristics	
Evaporation rate:	Not available

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

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Including information on hazard classes as defined by GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

a) acute toxicity	
Ingestion	Not classified. Based on the available data the classification criteria are not met. Calculated acute toxicity estimate (ATE): >5000mg/kg bw
Skin Contact	Not classified. Based on the available data the classification criteria are not met.
Inhalation	Not classified. Based on the available data the classification criteria are not met.
(b) Skin corrosion/irritation	Not classified. Based on the available data the classification criteria are not met.
(c) Serious eye damage/irritation	Not classified. Based on the available data the classification criteria are not met.
(d) Respiratory or skin sensitisation	
Skin sensitisation	Not classified. Based on the available data the classification criteria are not met.
Respiratory sensitisation	Not classified. Based on the available data the classification criteria are not met.
(e) Germ cell mutagenicity	Not classified. Based on the available data the classification criteria are not met.

(f) Carcinogenicity	Not classified. Based on the available data the classification criteria are not met.
(g) Reproductive toxicity	Not classified. Based on the available data the classification criteria are not met.
Lactation	Not classified. Based on the available data the classification criteria are not met.
(h) STOT - single exposure	Not classified. Based on the available data the classification criteria are not met.
(i) STOT - repeated exposure	Not classified. Based on the available data the classification criteria are not met.
(j) Aspiration hazard	Not classified. Based on the available data the classification criteria are not met.

11.2 Other information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not classified. Based on the available data the classification criteria are not met.

No data on the mixture. Data below is for the components.

	Sodium Nitrite	Sodium Nitrate
Aquatic Toxicity: Fish	LC50, 96h: 0.675 mg/L	LC50, 96h: 1354 mg/L
Aquatic Toxicity: Aquatic invertebrates	LC50, 48h: 35.1 mg/L	EC50, 24h: 8600 mg/L

12.2 Persistence and Degradation

No data on the mixture. Data below is for the components.

Sodium Nitrite and Sodium Nitrate	Dissociate in water.

12.3 Bioaccumulative potential

No data on the mixture. Data below is for the components.

Sodium Nitrite and Sodium Nitrate	Bioaccumulation is not expected.

12.4 Mobility in Soil

No data on the mixture. Data below is for the components.

Sodium Nitrite and Sodium Nitrate	Sodium nitrite and sodium nitrate will be mainly distributed in water.

12.5 Results of PBT and vPvB assessment

The product does not contain substances assessed to be PBT or vPvB.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

No additional information.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of waste according to local / national / international legislation. Contaminated packaging should be emptied as far as possible and disposed of in accordance with official regulations after being thoroughly cleaned. Treat uncleaned empty containers in the same way as the product.

13.2 Additional Information

No additional information

SECTION 14: TRANSPORT INFORMATION

According to ADR/ADN/RID/IMDG/ICAO/IATA.

14.1 UN Number or ID number

Not classified as dangerous for transport.

14.2 UN Proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental Hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: REGULATORY INFORMATION

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

This product is not classified as hazardous according to Regulation (EC) No. 1272/2008 as amended on classification, labelling and packaging and GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.
This safety data sheet is non-mandated according to EU REACH, Regulation (EC) 1907/2006 as amended and according to UK REACH, Regulation UK SI 2019/758, as amended, and UK SI 2020/1577. Safety Data Sheet is supplied for information only.

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	Not listed
National regulations - Other	Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE	Acute Toxicity Estimate
CAS number	Chemical Abstracts Service Number
CLP	Classification, Labelling and Packaging
EC number	European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances number
EC50	The effective concentration of substance that causes 50% of the maximum response.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Lethal Dose, 50%
LTEL	Long term exposure limit
NOEC	No observed effect concentration
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL	Short term exposure limit
STOT	Specific target organ toxicity

TWA	Time-weighted average
vPvB	very persistent and very bioaccumulative

Key Literature and sources of data
Suppliers' Safety Data Sheets
ECHA REACH Dossier
EH40/2005 4th edition, 2020

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008 (CLP) and GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

Classification according to Regulations (EC) No. 1272/2008 and GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.	Classification procedure
Not classified	Calculation.

Full list of Hazard Statement(s)

H272	May intensify fire; oxidiser
H301	Toxic if swallowed
H319	Causes serious eye irritation
H400	Very toxic to aquatic life

Full list of Hazard Class

Ox. Sol. 2/3	Oxidising Solids, Category 2/3
Acute Tox. 3	Acute Toxicity, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — Acute, Category 1

Training Advice
It is recommended that workers are trained in the handling of hazardous chemicals.

Additional Information
No additional information

Indication of changes

Issue date:	09/03/2021
Previous version:	2
Issue date of previous version:	16/12/2020
Sections changed from previous version:	1,2,3,4,9,11,12,15 & 16
Reason for the revision	Change in formulation

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