ARCTIC PX-1 Extreme – Safety Datasheet

according to Regulation (EC) No. 1907/2006 and 1272/2008

Reviewed Date: 2026-05-05
Revision No.: R01

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product identifier

Commercial Name:	ARCTIC PX-1 Extreme Putty Pad
Part No.:	ACTPD00069A
UPC:	84003340430-3
EAN:	489526500162-8

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

Use of the substance or mixture: Thermal interface material for Electrical industry and electronics

1.3 Details of the supplier of the safety data sheet

Company:

ARCTIC (HK) Ltd.
Unit 3001-07, The Octagon
No.6 Sha Tsui Road
Tsuen Wan,
New Territories
Hong Kong
Tel. No.: +852 3643 0044

Email address: info@arctic.de

1.4 Emergency telephone number

For emergencies, refer to this link for the contact details: https://support.arctic.de/emergency

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP].

Not classified.

2.2 Label elements

Symbols / Pictogrames:	None
Signal word:	None
Hazard statements:	Not applicable
Precautionary statements:	Not applicable

2.3 Other hazards

No information available

Section 3: Composition/Information on Ingredients

3.1 Mixture

Chemical Name	CAS No.	EINECS/ ELINCS No	Conc. (% w/w)
Aluminum	7429-90-5	231-072-3	78.0%
Diamond	7782-40-3	231-953-2	6.0%
Silicone	68037-87-6	-	16.0%

Section 4: First Aid Measures

4.1 Description of first aid measures

General advice: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact:

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

If eye irritation persists: Get medical advice/attention.Rinse opened eye for several minutes under running water.

Ingestion: Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

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

No information available.

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: Use extinguishing measures that are appropriate to local circumstances and the surrounding.

Unsuitable extinguishing media: No information available.

5.2 Special hazards arising from the substance or mixture:

No information available.

5.3 Advice for firefighters

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

Section 6: Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

6.2 Environmental precautions:

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

6.4 Reference to other sections:

See Section 7 for more information.
See Section 8 for more information.
See Section 13 for more information.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.

7.3 Specific end use(s):

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

Section 8: Exposure Controls / Personal Protection

8.1 Control parameters

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Aluminum (CAS #: 7429-90-5)	10 mg/m^3 5 mg /m^3	STEL 20 mg/m^3 TWA: 10 mg /m^3	-	TWA: 5 mg/m^3 TWA: 2 mg /m^3	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Aluminum (CAS #: 7429-90-5)	TWA: 2 mg /m^3	TWA: 10 mg/m^3 TWA: 5 mg /m^3	TWA: 1.5 mg /m^3	TWA: 4 mg/m^3 TWA: 1.5 mg /m^3	-

Chemical Name	Poland	Portugal	Spin	Switzerland	Netherlands
Aluminum (CAS #: 7429-90-5)	TWA: 2.5 mg/m^3 TWA: 1.2 mg /m^3	TWA: 10 mg/m^3 TWA: 5 mg /m^3	TWA: 10 mg/m^3 TWA: 5 mg /m^3	TWA: 3 mg/m^3	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum (CAS #: 7429-90-5)	TWA: 5 mg/m^3 STEL: 5 mg /m^3	STEL 20 mg/m^3 TWA: 10 mg /m^3	TWA: 1 mg /m^3 respirable fraction	TWA: 15 mg/m^3 total dust TWA: 5 mg /m^3 respirable fraction (vacated) TWA: 15 mg /m^3 respirable fraction (vacated) TWA: 5 mg /m^3 Al Aluminum	TWA: 10 mg/m^3 total dust TWA: 5 mg /m^3 respirable fraction (vacated) TWA: 5 mg /m^3 Al Aluminum

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2 Exposure controls

Engineering Controls

Showers. Eyewash stations. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand Protection	Wear protective gloves.
Skin and body protection	Suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls Prevent entry into waterways, sewers, basements or confined areas.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

PROPERTY	VALUE
Appearance	Paste
Colour	Grey
Odour	No information available
Odour threshold	Not determined
pH	Not determined
Melting point / Freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	> 200°C
Evaporation rate	Not determined
Flammability (solid, gas)	Not-flammable
Flammability Limit in Air	Not applicable
Lower and upper explosion limit	Non-explosive
Vapor pressure	Not determined
Vapor density	Not applicable
Density	2.67 g/cm^3
Relative density	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not applicable
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosives properties	Not an explosive
Oxidizing properties	Not determined

9.2 Other information

No information available

Section 10: Stability and Reactivity

10.1 Reactivity: No information available.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: None under normal processing.

10.4 Conditions to avoid: Heat, flames and sparks.

10.5 Incompatible materials: None known based on information supplied.

10.6 Hazardous decomposition products: None under normal use conditions.

Section 11: Toxicological Information

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

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum (CAS #: 7429-90-5)	LD50> 15900mg/kg bw(rat)	-	LC50>0.888 mg/L/4 h(rat)

Skin corrosion/irritation: Non-irritating to the skin.

Serious eye damage/irritation: No eye irritation.

Sensitization: No sensitization responses were observed.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

Section 12: Ecological Information

12.1 Toxicity

Chemical Name	Algae / aquatic plants EC50	Fish LC50	Crustacea EC50
Aluminum (CAS #: 7429-90-5)	-	> 50mg/L/96h	-

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential: No information available.

12.4 Mobility in soil: No information available.

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6 Other adverse effects: No information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws products and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: Transport Information

14.1 UN number or ID number Not regulated

14.2 Proper shipping name Not regulated

14.3 Hazard Class Not regulated

14.4 Packing Group Not regulated

14.5 Environmental hazards Non-marine pollutant

14.6 Special precautions No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Section 15: Regulatory Information

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

European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS – REACH TITLE VIII
Aluminum 7429-90-5 (75%)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Aluminum 7429-90-5 (75%)	X	X	Exempt	X	X	X	X

"-" Not Listed

"X" Listed

15.2 Chemical safety assessment:

No information available.

Section 16: Other Information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Recommended restriction of use: Not applicable

Indication of changes:

R01: Creation – 2026-05-04

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Key or legend to abbreviations and acronyms used in the safety data sheet

TWA	- TWA (time-weighted average)
STEL	- STEL (Short Term Exposure Limit)
Ceiling	- Maximum limit value
TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AICS	- Australian Inventory of Chemical Substances

Full text of H-Statements referred to under section 3

H228 - Flammable solid

H261 - In contact with water releases flammable gases

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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