

PTM5000-SP

000000019751

Version 1.0

Revision Date 08/19/2015

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PTM5000-SP

Number : 000000019751

Product Use Description : Thermal interface material

Manufacturer or supplier's details : Honeywell International Inc.
115 Tabor Road
Morris Plains, NJ 07950-2546

For more information call : 1-480-293-9800
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : viscous liquid

Color : grey

Odor : slight

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 4

GHS Label elements, including precautionary statements

Signal word : Warning

Hazard statements : Combustible liquid

Precautionary statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wear eye/face protection.

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Response:

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : PTM 5000-SP

Chemical nature : Mixture

Chemical Name	CAS-No.	Concentration
Aluminum	7429-90-5	70.00 - 95.00 %
Solvent	-	0.00 - 15.00 %
Polymer	-	1.00 - 10.00 %
Proprietary ingredient	-	0.10 - 10.00 %
Proprietary ingredient	-	0.30 - 3.00 %
Proprietary ingredient	-	0.08 - 2.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If not breathing, give artificial respiration.

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- If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.
- Ingestion : Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Immediate medical attention is required.

Notes to physician

- Treatment : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical
Carbon dioxide (CO₂)
Water spray
- Specific hazards during firefighting : Combustible.
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Aluminum oxides
Silicon oxides
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear personal protective equipment.
Evacuate personnel to safe areas.
Eliminate all ignition sources if safe to do so.
Do not swallow.
Avoid breathing vapours, mist or gas.

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Avoid contact with skin, eyes and clothing.

Environmental precautions : Should not be released into the environment.
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up : Ventilate the area.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE**Handling**

Handling : Handle with care.
Wear personal protective equipment.
Do not swallow.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition.
Take precautionary measures against static discharges.
No sparking tools should be used.
No smoking.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.
Protect from physical damage.
Store away from incompatible substances.
Container hazardous when empty.
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

Engineering measures : Ensure adequate ventilation.

Eye protection : Safety glasses with side-shields

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- For leak, spill or other emergency:
Goggles or face shield, giving complete protection to eyes
- Hand protection : Protective gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Apron
Protective suit
If splashes are likely to occur, wear:
Complete suit protecting against chemicals
- Respiratory protection : No personal respiratory protective equipment normally required.
In case of insufficient ventilation, wear suitable respiratory equipment.
For leak, spill or other emergency:
Wear self-contained breathing apparatus
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using, do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
Do not swallow.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Aluminum	7429-90-5	TWA : Time weighted average	1 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure : Respirable fraction.			

Aluminum	7429-90-5	REL : Recommended exposure limit (REL):	5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Form of exposure : Welding fume or pyrophoric powder. Expressed as : as Al			

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Aluminum	7429-90-5	REL : Recomm ended exposure limit (REL):	5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
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Further information	:	Form of exposure : Respirable.
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Aluminum	7429-90-5	REL : Recomm ended exposure limit (REL):	10 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
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Further information	:	Form of exposure : Total
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Aluminum	7429-90-5	PEL : Permissi ble exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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Further information	:	Form of exposure : Total dust. Expressed as : as Al
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Aluminum	7429-90-5	PEL : Permissi ble exposure limit	5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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Further information	:	Form of exposure : Respirable dust. Expressed as : as Al
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Aluminum	7429-90-5	TWA : Time weighted average	15 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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Further information	:	Form of exposure : Total dust. Expressed as : as Al
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Aluminum	7429-90-5	TWA : Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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Further information	:	Form of exposure : Respirable dust. Expressed as : as Al			
Aluminum		7429-90-5	TWA : Time weighted average	5 mg/m3	1989 Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposure : Pyrophoric powder. Expressed as : as Al			
Aluminum		7429-90-5	TWA : Time weighted average	5 mg/m3	1989 Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposure : Fume. Expressed as : as Al			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	viscous liquid
Color	:	grey
Odor	:	slight
pH	:	Note: no data available
Melting point/range	:	Note: no data available
Boiling point/boiling range	:	Note: no data available
Flash point	:	145.8 °F (63.2 °C) Method: closed cup
Lower explosion limit	:	Note: no data available
Upper explosion limit	:	Note: Not applicable
Vapor pressure	:	Note: no data available

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Vapor density : Note: no data available

Density : Note: no data available

Water solubility : Note: no data available

Ignition temperature : Note: no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Keep away from heat and sources of ignition.
Keep away from direct sunlight.Incompatible materials to avoid : Oxidizing agents
Peroxides
Chlorates, inorganic, n.o.s.
Perchlorates
permanganates, e.g. potassium permanganate
Nitrates
Reducing agents
AcidsHazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Aluminum oxides
Silicon oxides**SECTION 11. TOXICOLOGICAL INFORMATION**

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Aspiration toxicity
Naphtha (petroleum),
hydrotreated heavy : The substance or mixture is known to cause human aspiration
toxicity hazards or has to be regarded as if it causes a human
aspiration toxicity hazard.

Further information : Note: No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Further information on ecology

Additional ecological : We have no quantitative data concerning the ecological
information effects of this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental
regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : NA 1993
Proper shipping name : Combustible liquid, n.o.s.
Class CBL
Packing group III
Hazard Labels NONE
Required only for US-DOT Bulk Shipments

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances : On TSCA Inventory
Control Act

Australia. Industrial : Not in compliance with the inventory
Chemical (Notification and

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Assessment) Act

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : This product contains one or several components listed in the Canadian NDSL.

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : Not in compliance with the inventory

China. Inventory of Existing Chemical Substances : Not in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Aluminum 7429-90-5

SARA 311/312 Hazards : Fire Hazard

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Aluminum 7429-90-5

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New Jersey RTK	: Aluminum	7429-90-5
Pennsylvania RTK	: Aluminum	7429-90-5

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1*	1
Flammability	: 2	2
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this 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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group