Honeywell

PTM6000-SP

102245

Version 1.2 Revision Date 08/27/2018 Print Date 02/20/2020

SECTION 1. IDENTIFICATION

Product name : PTM6000-SP

Number : 00000019753

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

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Classification of the substance or mixture

Classification of the

: Flammable liquids, Category 4

substance or mixture

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 protective gloves/ protective clothing/ eye protection/ face

protection.

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

Chemical nature : Mixture

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Chemical name	CAS-No.	Concentration
Aluminum	7429-90-5	70.00 - 95.00 %
Polymer	-	1.00 - 10.00 %
Proprietary ingredient	-	0.10 - 10.00 %
Proprietary ingredient	-	0.30 - 3.00 %
Solvent	-	0.00 - 15.00 %
Proprietary antioxidant	-	0.10 - 1.50 %
Proprietary ingredient	-	0.10 - 1.50 %
Proprietary ingredient	-	0.10 - 1.50 %
Proprietary ingredient	-	0.10 - 2.00 %
Proprietary ingredient	-	0.10 - 1.50 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous

area.

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

If breathing is difficult, give oxygen. Use oxygen as required,

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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

Indication of immediate medical attention and

special treatment needed, if

necessary

: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical

Carbon dioxide (CO2)

Water spray

Unsuitable extinguishing

media

Specific hazards during

firefighting

: High volume water jet

: 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

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for firefighters

Special protective equipment : Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency procedures

: 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. 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 and materials for containment and 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

Precautions for safe

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 smokina.

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Storage

Conditions for safe storage,

including any incompatibilities

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

For leak, spill or other emergency:

Goggles or face shield, giving complete protection to eyes

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.

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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	Upda te	Basis
Aluminum		7429-90-5	TWA: Time weighted average	1 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure		e fraction.		
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)
Further information	:	Form of exposure Expressed as : as				
Aluminum		7429-90-5	PEL: Permissi ble exposure limit	5 mg/m3	03 2016	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	:	Form of exposure Expressed as : as		I e fraction.	1	
Aluminum		7429-90-5	TWA: Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further	:	Form of exposure	: Fume.			

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information		Expressed as : as	s Al			
Aluminum		7429-90-5	TWA: Time weighted average	15 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposure Expressed as : as				
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 Expressed as : as		e dust.		
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 Expressed as : as	: Pyrophori	c powder.	1	
Aluminum		7429-90-5	REL: Recomm ended exposure limit (REL):	10 mg/m3	2016	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Form of exposure	: Total		•	

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Aluminum		7429-90-5	REL: Recomm ended exposure limit (REL):	5 mg/m3	2016	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Form of exposure	: Respirable	ə. 		
Aluminum		7429-90-5	REL: Recomm ended exposure limit (REL):	5 mg/m3	2016	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Form of exposure Expressed as : as	: Welding fu	ume or pyrophoric	powde	
Aluminum		7429-90-5	TWA: Time weighted average	15 mg/m3	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure			•	
Aluminum		7429-90-5	TWA : Time weighted average	5 mg/m3	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure		e fraction.		
Aluminum		7429-90-5	TWA : Time weighted average	50 millions of particles per cubic foot of air	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure	: Total dust		1	

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Aluminum		7429-90-5	TWA : Time weighted average	15 millions of particles per cubic foot of air	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure	Respirable	e fraction.		

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

Vapor density : Note: no data available

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Density : Note: no data available

Water solubility : Note: no data available

Ignition temperature : Note: no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Bulk density : Note: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

Conditions to avoid

reactions

: Hazardous polymerisation does not occur.

: Keep away from heat and sources of ignition.

Keep away from direct sunlight.

Incompatible materials : Oxidizing agents

Peroxides

Chlorates, inorganic, n.o.s.

Perchlorates

permanganates, e.g. potassium permanganate

Nitrates

Reducing agents

Acids

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as:

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Carbon monoxide Carbon dioxide (CO2) Aluminum oxides Silicon oxides

Fire may cause evolution of: carbon oxides (CO, CO2).

Risk of formation of toxic pyrolysis products.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

: LC50: > 46 mg/l

Species: Rat

Exposure time: 1 h

Method: Calculation method

Acute inhalation toxicity

3,5-Bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid 2,2-bis[[3-[3,5-bis(1,1-

dimethylethyl)-4-

dimethylethyl)-4hydroxyphenyl]-1oxopropoxy]methy

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Skin irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

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Repeated dose toxicity : Note: no data available

Genotoxicity in vitro : Note: no data available

Genotoxicity in vivo : Note: no data available

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : Note: no data available

Toxicity to daphnia and other : Note: no data available

aquatic invertebrates

Toxicity to algae : Note: no data available

Toxicity to bacteria : Note: no data available

Elimination information (persistence and degradability)

Biodegradability : Note: no data available

Further information on ecology

Additional ecological

information

: We have no quantitative data concerning the ecological

effects of this product.

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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

Control Act

: On TSCA Inventory

Australia. Industrial Chemical (Notification and

Assessment) Act

: Not in compliance with the inventory

A33C33MCHI, ACC

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

Canadian NDSL.

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Japan. Kashin-Hou Law

List

: Not in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: 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

Chemical Substances

California Prop. 65

China. Inventory of Existing : 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.

: The following components are subject to reporting levels **SARA 313 Components**

established by SARA Title III, Section 313:

Aluminum 7429-90-5

SARA 311/312 Hazards : Fire Hazard

WARNING: This product can expose you to chemicals, listed below, known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Formaldehyde 50-00-0 Ethylbenzene 100-41-4

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Massachusetts RTK : Aluminum 7429-90-5

: Formaldehyde 50-00-0

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

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.

Previous Issue Date: 04/08/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group