

Version 1.0

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SDS record number: CSSS-TCO-010-153200

1. Identification

Product name	APH 1550F
Synonyms	-
CAS #	See section 3
Product code	-
Product use	Heat-resisting material.
Manufacturer/Supplier	
Supplier(Manufacturer):	Korea Kumho Petrochemical Co., Ltd.
Address:	260-257, Cheoyong-ro, Nam-Gu, Ulsan, 44785, Korea
Contact person(E-mail):	-
Telephone:	+82-52-279-8852
Fax:	+82-52-279-8840
Emergency telephone Number:	1-858-987-0023

2. Hazard(s) identification

GHS classification

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified

GHS label elements

Hazard Pictograms	No hazard pictogram is used.
Signal word	No signal word is used.
Hazard statement	Not applicable.

Precautionary statement

Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.

Other hazards Not available.

3. Composition / information on ingredients

Components	CAS#	Percent
2-Propenenitrile polymer with ethenylbenzene, (1-methylethenyl)benzene and 1-phenyl-1H-pyrrole-2,5-dione	94858-30-7	99~100%

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4. First-aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water at least 15minutes. If irritation persists, get a doctor's examination. Lifting eyelids occasionally to wash eyelids down enough to follow up.

Skin contact

Wash the contaminated skin area with running water. Cooling the contaminated skin with cool running water when contact with melt. Get medical attention when burn by melt.

Inhalation

Remove exposed person to fresh air If inhaled smoke and decomposition products. Remove victim to fresh air and keep at rest in a position comfortable. Get medical attention.

Ingestion

Rinse mouth with water. Give large amounts of water. Toxic by ingestion does not high. If irritation or symptoms occurs, get a doctor's examination.

Notes to physician

Treat symptoms.

5. Fire-fighting measures

Flammable properties

Not available.

Extinguishing media

Suitable extinguishing media

Carbon Dioxide, Dry Chemical, Water. Big Fire : Water spray, regular foam.

Unsuitable extinguishing media

Do not use direct water.

Firefighting equipment/instructions

Wear appropriate personal protective equipment (see section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION). Avoid inhalation of smoke or gas when fire fighting. Move container from fire area if it can be done without risk. Cool containers with water until well after fire is out.

Hazardous combustion products

Carbon monoxide, Carbon dioxide, hydrogen cyanide.

6. Accidental release measures

Personal precautions

Perform in accordance with 「 See section 8 . EXPOSURE CONTROLS / PERSONAL PROTECTION 」 . Put on appropriate personal protective equipment. Use a way to minimize dust. Avoid contact with eyes and skin. Avoid inhalation of substance itself or combustion. Evacuation against the wind. Keep unauthorized personnel out. Avoid contact with heat, sparks, flame or other ignition sources.

Environmental precautions

Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

Methods for cleaning up

For small spills: Remove all sources of ignition. Suppression occurrence of dust. Appropriate container for disposal of spilled material collected. Ventilate leak areas and clearing leak area.

For large spills: Remove all sources of ignition. Suppression occurrence of dust. Avoid entering to sewers or water system. For disposal of spilled material in appropriate containers collected and clear surface. Appropriate container for disposal of spilled material collected.

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7. Handling and storage

Handling	Handle in a well-ventilated place. Avoid contact with heat, sparks, flame or other ignition sources. Remove all sources of ignition. Ground all equipment. Wash thoroughly after handling.
Storage	Keep in original container and tightly closed. Avoid contact moisture. Avoid contact with incompatible materials.

8. Exposure controls / personal protection

Control parameters:

Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Use in a well-ventilated area.

Individual protection measures, such as personal protective equipment:

Eye / face protection	Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield. Provide an emergency eye wash station and quick drench shower in the immediate work area.
Skin protection	Wear chemical resistant protected gloves if there is hazard potential for direct skin contact. Wear heat resistant protected gloves to withstand the temperature of molten product. Wear chemical resistant protected clothing if there is hazard potential for direct contact.
Respiratory protection	Respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. <ul style="list-style-type: none">- Dust, mist, fume-purifying respiratory protection.- Any air-purifying respirator with a corpuscle filter of high efficiency.- Any respiratory protection with a electro motion fan(for dust, mist, fume-purifying).※ For Unknown Concentration or Immediately Dangerous to Life or Health.- Self-contained breathing apparatus(pressure-demand or other positive-pressure mode in combination).- Supplied-air respirator with full face piece.
General hygiene considerations	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties

Appearance

Physical state	Solid
Form	Pellet
Color	Colorless
Odor	Mild odor

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Odor threshold	Not available
pH	Not available
Vapor pressure	Not available
Melting point/Freezing point	Not available
initial boiling point and boiling range	Not available
Flash point	349 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapor density	Not available
Relative density	Not available
Solubility (water)	Insoluble
Solubility (others)	Acetone, MEK, dichloromethane : Soluble Alcohol, Mineral Oil: insoluble:
Partition coefficient	Not available
Auto-ignition temperature	455 °C
Decomposition temperature	Not available
Specific gravity	Not available
Relative Density	1.02-1.17
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available

10. Stability and reactivity

Chemical stability	Material is stable under normal conditions. Decompose at 320°C on heating.
Conditions to avoid	Incompatible materials. Avoid contact with heat, sparks, flame or other ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen cyanide. Generate monomer, oxides, gas/steam, hydrocarbon, low-molecular oligomers ring, gas products when heated to high temperature.
Possibility of hazardous reactions	No dangerous reactions known.

11. Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): Not available

LD50(Dermal, Rat): Not available

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LC50(Inhalation, Rat): Not available
Skin corrosion/Irritation: Not classified.
Serious eye damage/irritation: Not classified
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT- single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

12. Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Results of PBT&vPvB assessment: Not available.
Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Basic shipping requirements:

UN number Not regulated
Proper shipping name Not regulated
Hazard class Not regulated
Packing group Not regulated
Environmental hazards No

IATA

UN number Not regulated
UN proper shipping name Not regulated
Transport hazard class(es) Not regulated
Packing group Not regulated

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Environmental hazards No

IMDG

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard class(es) Not regulated

Packing group Not regulated

Environmental hazards No

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

16. Other information, including date of preparation or last revision

HMIS® ratings Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings Health: 0
Flammability: 1
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

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