

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY NAME : Hakko Corporation
ADDRESS : 4-5, Shiokusa 2-chome, Naniwa-ku, Osaka, 556-0024 Japan
SECTION IN CHARGE : Research & Development Center
EMERGENCY TELEPHONE : 81-6-6561-3225 (FAX: 06-6568-0821)
NUMBER/REFERENCE : Sales Division

PRODUCT NAME: Main filter for FA-430
Model: A1573

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : N/A
GHS LABEL ELEMENTS : N/A
PICTOGRAM OR SYMBOL : N/A
HAZARD INFORMATION : Fumes evolved from high-temperature molten resins are irritating to eyes and respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single substance or mixture: Mixture

General name: Filter unit

Chemical name and content

	CAS No.	Official gazette reference code	PRTR No.	Chemical name
Filter	9003-07-0	(6)-402		Polypropylene
	9002-89-5	(6)-682		Polyvinyl alcohol
	7440-44-0			Activated carbon
				Polyester
				Pulp
				Styrene acrylic binder
				Ethylene vinyl acetate copolymer
	9010-98-4	(6)-743		Chloroprene rubber
				Acrylic acid/Alkyl methacrylate ester copolymer

				Petroleum resin
	8002-74-2	(8)-430		Solid paraffin
Frame and rivet (parts made of metals)	7439-89-6			Ferrum
	7439-96-5		1-412	Manganese
	7429-90-5			Aluminum
	7440-21-3			Silicon
	7440-50-8			Copper
	7439-95-4			Magnesium
	7440-47-3		1-87	Chrome
	7440-66-6			Zinc
	7440-32-6			Titanium
	7440-02-0		1-308	Nickel

Hazardous components

Industrial Safety and Health Law: Solid paraffin, Manganese, Nickel, Chrome, Copper
 PRTR Law: Manganese, Nickel, Chrome

4. FIRST-AID MEASURES

- Eye contact : Not likely to get into eyes due to physical form. However, if small pieces of the product get into eyes, immediately flush eyes with water without rubbing them. Rubbing may cause eye irritation and/or cornea damage.
- Inhalation : Not likely to be inhaled due to physical form. However, if fumes emitted when the product is molten are inhaled, remove the affected person to fresh air. Seek immediate medical attention if required.
- Ingestion : Not likely to be ingested due to physical form. However, if small pieces of the product are ingested, have the affected person gargle them out immediately. Seek medical attention if required.

5. FIRE FIGHTING MEASURES

- Extinguishing media : Use water spray, alcohol-resistance foam, dry chemical power or carbon dioxide.
- Hazardous combustion products : May include dense black smoke, carbon monoxide, nitrogen oxides, hydrogen chloride and other toxic gases or fumes.

- Special fire fighting : Work from the windward side.
procedures Shut off fire sources if possible.
Take appropriate measures to prevent environmental contamination caused by fire extinguishing agent or water.
Evacuate affected persons to a safe area.
- Protection of fire fighters : Wear gas mask.
Wear appropriate protective gear.
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6. ACCIDENTAL RELEASE MEASURES

- Personal protection : Nothing of particular note.
Removing procedures : Carefully sweep up.
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7. HANDLING & STORAGE

Handling

- Technical measures : (Prevention of fire or explosion)
Keep the product away from heat, spark or fire sources.
The filter is combustible.
- Precaution : Washing forbidden
- Precaution for safe handling : Heating to higher than 80°C may evolve irritating fumes.

Storage

- Suitable storage conditions : Store the product in a cool dry place away from direct sunlight. Do not place heavy objects on the product.
Avoid contacting with acid and the alkali.
- Storage conditions to avoid : Store the product away from heat sources.
Store the product away from fire sources. –No smoking
Store the product away from direct sunlight.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Administrative level : Not determined.

- Allowable concentration : Japan Society for Occupational Health: 2.0mg/m³(Total dust)
; Activated carbon

Protective gear

- Protective gear for respiratory : Not required in normal conditions. But a dust respirator should be used in dusty conditions.
- Protective gear for eyes : Not required
- Protective gloves : Not required
- Protective clothing : Not required

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

APPEARANCE	: Solid
Color	: Frame : Silver white Filter : White
Odor	: Smell-less
pH	: Not applicable
Boiling point/range	: Not available
Melting point/Freezing point	: Not available
Ignition point	: Not available
Explosiveness	: None
Specific gravity/Density	: Not available
Solubility in water	: Insoluble

10. STABILITY AND REACTIVITY

Stability	: The product is deemed stable under normal storage and handling conditions.
Incompatible materials	: Acid, Base
Other	: Combustion, thermal decomposition or incomplete combustion of the product may cause carbon monoxide, nitrogen oxides, hydrogen chloride and other toxic gases or fumes to occur.

11. TOXICOLOGICAL INFORMATION

MUTAGENICITY	:
Reverse Mutation Test (Ames Test)	: Data not available
Chromosome Aberration Test	: Data not available

12. ECOLOGICAL INFORMATION

Degradation	: Data not available
Bioaccumulation	: Data not available
Toxicity for fish	: Data not available

13. DISPOSAL CONSIDERATIONS

The package of the product must be disposed of in a manner conforming to applicable laws and regulations, or by approved subcontractors in a manner specified by the manufacturer.

14. TRANSPORTATION INFORMATION

International rules : Nothing of particular note.
No UN number allocated.

Special safety measures required : The product is not classified as dangerous goods.
Keep the product away from direct sunlight and rainwater during transportation.

15. REGULATORY INFORMATION

Industrial Safety and Health Law

Hazardous Materials Requiring Notification : Manganese, Nickel, Chrome, Copper, Solid paraffin

Ordinance on Prevention of Dust Hazard : Activated carbon

Ordinance on Prevention of Oxygen Deficiency : Activated carbon

Law concerning Pollutant Release and Transfer : Manganese (1-412), Nickel (1-308),
Register (PRTR) Chrome (1-87)

Fire Service Act : Designated combustibles

Law Relating to Prevention of Marine Pollution : Not dangerous substances according to
and Maritime Disaster Appended Table 1-2; Polypropylene

16. OTHER INFORMATION

Reference:

MSDS issued by the manufacturer.

This document has been prepared based on the information and data that are available as of this date. Therefore, it may be revised when new information or data has been obtained.

The information and data contained herein are subject to the normal use. The evaluation of dangerousness and toxicity is, therefore, not always applicable. For this reason, the safety precautions suitable for your purpose and method must be taken prior to the use.