# **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 n	ame 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			



				Petroleum resin
	8002-74-2	(8)-430		Solid paraffin
Frame and	7439-89-6			Ferrum
rivet	7439-96-5		1-412	Manganese
(parts made	7429-90-5			Aluminum
of metals)	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 : May include dense black smoke, carbon monoxide, nitrogen oxides,

combustion products 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.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal protection : Nothing of particular note.

Removing procedures : Carefully sweep up.

#### 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.

# 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 : Data not available

(Ames Test)

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.

