

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

TNØIM / TN02M

IDENTITY (As Used on Label and List)

TUPTONE HIM-S1

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Distributor's Name	Emergency Telephone Number
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
Manufacturer's Name Hitachi Ltd. Home Appliances Division	Date Prepared August 19, 1997
Address 1-1, Higashi-tama-cho 1-chome, Hitachi-shi, Ibaraki-ken, 316 Japan	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identify Information

Hazardous Component(s) (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
None				
None Hazardous Components				
Polyester resin (NJ TSPN 80100252-5001)	Not listed	Not listed	None	80<
Organic pigment (CAS No. 980-26-7)	Not listed	Not listed	None	10>
Polypropylene wax (CAS No. 9010-79-1)	Not listed	Not listed	None	5>
Organic salt (CAS No. 114803-11-1)	Not listed	Not listed	None	5>
Silica (CAS No. 7631-86-9)	15mg/m ³	10mg/m ³	None	1>
Silica (CAS No. 60842-32-2)	15mg/m ³	10mg/m ³	None	1>
All ingredients are included on the TSCA inventory list.				

Section III - Physical/Chemical Characteristics

Boiling Point	N.A.	Specific Gravity (H ₂ O = 1)	1.1
Vapor Pressure (mm Hg.)	N.A.	Melting Point	N.A.
Vapor Density (AIR = 1)	N.A.	Evaporation Rate (Butyl Acetate = 1)	N.A.
Solubility in Water	Insoluble		
Appearance and Odor	Fine odorless powder (Magenta colored)		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method used)	N.A.	Flammable Limits	LEL No data	UEL No data
Extinguishing Media	Water spray, foam, CO ₂ , dry powder			
Special Fire Fighting Procedures	This material will burn in the case of fire. The decomposition products are CO, CO ₂ and NOx. Avoid inhalation of smoke.			
Unusual Fire and Explosion Hazards	No information available.			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	None
	Stable	X		

Incompatibility (Materials to Avoid)

Strong acid or alkaline

Hazardous Decomposition or Byproducts

Phenol derivatives, carbon monoxide when heated at high temperature. (>300°C)

Hazardous Polymerization	May Occur		Conditions to Avoid	None
	Will Not Occur	X		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Yes	Skin?	No	Ingestion?	Possible but very unusual
--------------------	-------------	-----	-------	----	------------	---------------------------

Health Hazards (Acute and Chronic)

No data available

Carcinogenicity:	NTP?	No	IARC Monographs?	No	OSHA Regulated?	No
------------------	------	----	------------------	----	-----------------	----

Signs and Symptoms of Exposure

Minimal irritation to respiratory tract may occur as with exposure to large amount of any non-toxic powder.

Medical Conditions

Generally Aggravated by Exposure

Accumulation of dust in the respiratory system.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air if effects occur, consult local medical personnel.

Eyes: In case of contact, immediately flush eyes with plenty of water.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Sweep up or clean up with a vacuum cleaner.

Waste Disposal Method

Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.

Precautions to Be Taken in Handling and Storing

No special storage requirements for safety reasons.

Other Precautions

None

Section VIII - Control Measures

Respiratory Protection (Specify Type)

None required under normal use.

Ventilation	Local Exhaust	No	Special	No
	Mechanical (General)	No	Other	No

Protective Gloves

None required under normal use.

Eye Protection

None required under normal use.

Other Protective Clothing or Equipment

None required under normal use.

Work/Hygienic Practices

Inhalation should be avoided.