



Tally[®]

Material Safety Data Sheet

T8x04 & T8x06

Yellow Toner

044955/083234 & 044996/083204

Material Name
 Yellow Toner "TUFTONE HIY-S1"

Issue Date: 10/26/2000
 MSDS No.: HIY19971020

Yellow toner 083234 083204

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name : Color toner

Manufacturer Information

Hitachi, Ltd. Toyokawa Works
 9-5 Noguchimae, Shiratori-cho,
 Toyokawa-shi, Aichi, JAPAN 442-0848
 Phone 0533-89-8020

EMERGENCY PHONE --

Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Components	OSHA PEL	ACGIH TLV	% Wt.
*80100252-5001 (*NJ.TRSN.)	Resin	Not listed	Not listed	80<
4531-49-1	Organic pigment	Not listed	Not listed	-10>
9010-79-1	Polypropylene, wax	Not listed	Not listed	5>
114803-11-1	Organic salt	Not listed	Not listed	5>
7631-86-9	Silica	*	*	2>
68611-44-9	Silica	*	*	1>

all ingredints are included on the TSCA inventory list.

*: OSHA establishes a PEL of 15mg/m3 (total dust) and 5mg/m3 (respirable dust) for "Particles Not Otherwise Regulated". The ACGIH TLV is 10mg/m3 for these particles. Risks include reduced visibility and physical irritation.

Section 3 - HAZARDS IDENTIFICATION

Emergency Overview

Characteristics: Fine odorless powder (Yellow colored),
 water insoluble

FLASH POINT: Not Applicable

HMS Ratings: Health: 1 Fire: 1 Reactivity: 0
 Personal Protection: (See Section 8) - Use protective goggles.

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Use suitable protective gloves. Use a NIOSH/MSHA approved dust/mist respirator.

Potential Health Effects

Eyes

This product presents no serious risk of chemical damage to the eyes.

Skin

This product presents no serious risk of chemical damage to the skin.

Ingestion

This product may be harmful if swallowed.

Inhalation

Respiratory tract may be affected by exposure to large amounts of dust from this product.

Section 4 - FIRST AID MEASURES

Eyes

Flush eyes with plenty of water for a minimum of 15 minutes, and seek medical attention.

Skin

Wash material off of skin with plenty of soap and water.

Ingestion

If the material is swallowed, get immediate medical attention or advice.

Inhalation

Remove person to fresh air and seek medical attention. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician

Not Provided

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Section 5 - FIRE FIGHTING MEASURES

Flash Point : Not Applicable
 Method Used :
 Upper Flammable Limit (UFL): Not known
 Lower Flammable Limit (LFL): 34.5g/m3
 Auto Ignition : Not available
 Flammability Classification: Not available
 Rate of Burning : Not available

General Fire Hazards

Minimal fire hazard. Material is self-extinguishing.

Hazardous Combustion Products

Combustion or decomposition will generate phenol derivatives, carbon monoxide, carbon dioxide over 300°C.

Extinguishing Media

Dry chemical or carbon dioxide for small fires.
 Alcohol-type or all-purpose-type foams for large fires.

Fire Fighting Equipment/Instructions

Not provided

 NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other: -

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0
 Personal Protection: (See Section 8)

Section 6 - ACCIDENTAL RELEASE MEASURES

Containment Procedures

Review FIRE FIGHTING MEASURES (Section 5) and EXPOSURE CONTROLS/PERSONAL (Section 8) before proceeding with cleanup. Use appropriate personal protective equipment during cleanup. Prevent release of material into the natural environment.

Clean-Up Procedures

If the product is spilled, sweep up the material and recover it, or mix the spilled material with moist absorbant and shovel into suitable waste container. This material is non-hazardous under RCRA.

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Evacuation Procedures

Not applicable

Special Instructions

Not applicable

Section 7 - HANDLING AND STORAGE

Procedures for Handling

Use protective goggles and gloves.

Recommended Storage Methods

Keep containers tightly closed and store in a cool, well ventilated area. Storage below 35°C is recommended to prevent product from caking.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

The substance is generally non-hazardous but keep exposure to a minimum.

Component Exposure Limits

Not available

General Product Information

Product is generally non-hazardous when NOT a dust or powder. Product is generally in fine granule form.

Engineering Ctrl.: Use local exhaust ventilation (Use local ventilation in dusty areas)

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Use protective goggles.

Skin : Use suitable protective gloves.

Respiratory : Use a NIOSH/MSHA approved dust/mist respirator.

General : Not applicable

Section 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance : Yellow powder

Odor : odorless

Physical State : solid

pH : Not available

Vapor Pressure : Not applicable

Vapor Density : Not available

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Boiling Point :Not applicable
Melting Point :Not applicable
Specific Gravity:1.16 @ 20°C (68°F)
Softening Point :95-101°C

Freezing Point :Not available
Solubility (H2O):insoluble
Particle Size :-0.01 mm
Evaporation Rate:

Viscosity :Not available
Percent Volatile:Not available

Not available
Bulk Density :Not available
Molecular Weight:
Not available

Additional Properties

Solubility in Chloroform: Partially soluble

Section 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability : Stable

Conditions to Avoid: Not available

Incompatibility
Strong oxidizing agents

Hazardous Decomposition Products

Combustion or decomposition will generate phenol derivatives, carbon dioxide, and carbon monoxide over 300°C.

Hazardous Polymerization

Will not occur

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity/Target Organ Information

A. General Product/Component Information

LD50>2000mg/g

B. Component LD50/LC50

Not available

Epidemiology

Not available

Carcinogenicity

A. General Product/Component Information

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B. Component Carcinogenicity Listings
Not available

Teratogenicity/Reproductive Effects
Not available

Neurotoxicity
Not available

Mutagenicity
Negative (AMES Test)

Other Information

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Not available

Environmental Fate
Not available

Section 13 - DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A. General Product Information
Not applicable

B. Component Waste Numbers
Not applicable

Disposal Instructions

Dispose of material waste in accordance with governmental regulations.
Prevent release of material into natural environment.

Section 14 - TRANSPORTATION INFORMATION

DOT Information

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Shipping Name: Not applicable (Non-hazardous material)

Hazard Class : Not applicable

UN/NA # : Not applicable

Packing Group: Not applicable

Label(s) Required

Not applicable

Additional Shipping Information

Not provided

International Transportation Regulations

Not provided

Section 15 - REGULATORY INFORMATION

US Federal Regulations

A. General Product Information

x On TSCA Inventory

Not on TSCA Inventory - Provided under R&D Exemption

B. Component Information

Not available

State Regulations

A. General Product Information

Not Regulated

B. Component Information

Not available

Other Regulations

A. General Product Information

Not available

B. Component Information

Not available

Section 16 - OTHER INFORMATION

Other Information

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Key/Legend

Not provided

Contact Person:

Phone:

End of MSDS #