

U.S. Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

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.

# ADLER ROYAL TA2022

Manufacturer's Name: **ADLER ROYAL TA2022**  
Address: **ADLER ROYAL TA2022**  
777 TERRACE AVE., PO BOX 813  
BASSETT HEIGHTS, NJ 07604  
Emergency Telephone: **201-288-6900**  
Telephone Number for Information: **(201) 863-5411**  
Date Prepared: **JULY 1, 1990**  
Signature of Preparer (optional):

## Section II — Hazardous Ingredients/Identity Information

Hazardous Component (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Units Recommended	TO NEAREST 3% (following)
IRON OXIDE (CAS NO. 1317-60-8)	10mg/m <sup>3</sup>	5mg/m <sup>3</sup>	NONE	
ZINC OXIDE (CAS NO. 1314-13-2)	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	NONE	90%
MAGNESIUM OXIDE (CAS NO. 1309-48-4)	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	NONE	
CARBON BLACK (CAS NO. 1333-86-4)	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	NONE	

BLACK TONER FOR 2335Z, 2335ZD, 2345Z, 2345ZD  
(NONE HAZARDOUS INGREDIENTS)  
COPPER OXIDE (CAS NO. 1317-38-0) 5%

## Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	1.8
Vapor Pressure (mm Hg)	N/A	Melting Point	GREATER THAN 1300°C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	INSOLUBLE		

## Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used): **HIGHER THAN 350°** Flammable Limits: **LEL N/A UEL N/A**  
Extinguishing Media: **IF PRODUCT BECOMES INVOLVED IN A FIRE, USE CARBON DIOXIDE EXTINGUISHER.**  
Special Fire Fighting Procedures: **USE CARBON DIOXIDE EXTINGUISHER**

## Section V — Unusual Fire and Explosion Hazards

**NONE UNDER NORMAL STORAGE AND USE CONDITIONS.**  
(Reproductive toxicity)

OSHA 174, Sept. 1985



MITA 2285-T

Section V — Reactivity Data  
Stability: Unstable NONE  
Conditions to Avoid: NONE

Incompatibility (Materials to Avoid): STRONG OXIDIZING AGENTS  
Hazardous Decomposition or Byproducts: NONE IN NORMAL HANDLING AND USE.

Teratogenicity: May Occur NONE  
Virt Not Occur: NONE

Section VI — Health Hazard Data  
Routes of Entry: YES  
Skin: NO  
Inhalation: POSSIBLE BUT VERY UNUSUAL

Health Hazards (Acute and Chronic): NONE IN NORMAL HANDLING AND USE.

Carcinogenicity: NTP N.A. IARC Monographs? N.A. OSHA Required? N.A.

Signs and Symptoms of Exposure: MINIMAL RESPIRATORY TRACT IRRITATION MAY OCCUR AS WITH EXPOSURE TO LARGE AMOUNTS OF ANY NON-TOXIC DUST.

Medical Conditions Generally Aggravated by Exposure: N.A.

Emergency and First Aid Procedures: IF SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF EYE CONTACT OCCURS, FLUSH THOROUGHLY WITH WATER AND SEEK MEDICAL TREATMENT. IF INGESTION OCCURS, DILUTE STOMACH CONTENTS WITH SEVERAL GLASSES OF WATER AND SEEK MEDICAL TREATMENT.

Section VII — Precautions for Safe Handling and Use  
Steps to Be Taken in Case Material is Released or Spilled: CLEAN UP WITH A VACUUM CLEANER

Waste Disposal Method: DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions to Be Taken in Handling and Storage: CLOSE CAP TIGHTLY AND STORE IN A COOL, DRY AND DARK PLACE.

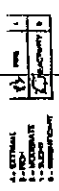
Other Precautions: AVOID COMBUSTION.

Section VIII — Control Measures  
Respiratory Protection (Specify Type): NONE REQUIRED UNDER NORMAL USE.

Ventilation: Local Exhaust NONE REQUIRED UNDER NORMAL USE. Special  
Mechanical (General) NONE REQUIRED UNDER NORMAL USE. Other NONE REQUIRED UNDER NORMAL USE.

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 Hygiene Practices: AVOID INHALATION, INGESTION, SKIN OR EYE CONTACT.



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.

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 Occupational Safety and Health Administration  
 (Non-Hazardous Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY**

Section 1  
 Manufacturer's Name  
**ADLER ROYAL TA2022**

Emergency Telephone Number  
 (201)-288-6900

Address (Number, Street, City, State, and ZIP Code)  
**MITA INDUSTRIAL CO., LTD.**  
**MITA COPISTAR-ARBEICA, INC.**  
 777 TERRACE AVE., PO BOX 813  
 HASBROUCK BEICHTS, NJ 07604

Telephone Number for Information  
 (201) 288-5414

Date Prepared  
 JULY 1, 1990

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identifiy Information

Hazardous Components (Specify Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits TO REQUEST Recommended 5 W (Aspiratory)
CARBON BLACK (CAS NO. 1333-86-4)	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	NONE
ORGANIC PIGMENTS (CAS NO. 109125-51-1) (CAS NO. 109125-50-0) (CAS NO. 84179-66-8)	1mg/m <sup>3</sup>	0.5mg/m <sup>3</sup>	NONE

(NONE HAZARDOUS INGREDIENTS)

POLYMER RESINS (CAS NO. 27136-15-8)  
 (CAS NO. 9003-07-0)  
 (CAS NO. 68611-44-9)  
 (CAS NO. 25086-15-1)

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (40°C - 1)	1.1
Vapor Pressure (mm Hg)	N/A	Melting Point	131°C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Pure Acetate = 1)	R/A
Solubility in Water	INSOLUBLE		

Appearance and Odor  
 FIRE BLACK POWDER, PRACTICALLY ODORLESS.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)  
 HIGHER THAN 330°

Flammable Limits  
 LEL: N/A UEL: R/A

Extinguishing Media  
 IF PRODUCT BECOMES INVOLVED IN A FIRE, USE CARBON DIOXIDE EXTINGUISHER.

Special Fire Fighting Procedures  
 USE CARBON DIOXIDE EXTINGUISHER

Unusual Fire and Explosion Hazard  
 NONE UNDER NORMAL STORAGE AND USE CONDITIONS.

(Prepared Locally)

OSHA 17, Sept. 1985

MITA 2285-T

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	X	NONE

Incompatibility (Materials to Avoid)  
 STRONG OXIDIZING AGENTS

Hazardous Decomposition or Byproducts  
 NONE IN NORMAL HANDLING AND USE.

Toxicological Information

May Occur	Conditions to Avoid
X	NONE

Section VI - Health Hazard Data

Route of Entry:	Inhalation?	Swal?	NO	POSSIBLE BUT VERY UNUSUAL
Health Hazard (Acute and Chronic)	YES	NO		
Health Hazard (Acute and Chronic)				NONE IN NORMAL HANDLING AND USE.

Toxicological Information

ATP?	N.A.	WPC Monographs?	N.A.	OSHA Registered?	N.A.

Signs and Symptoms of Exposure  
 MINIMAL RESPIRATORY TRACT IRRITATION MAY OCCUR AS WITH EXPOSURE TO LARGE AMOUNTS OF ANY NON-TOXIC DUST.

Medical Conditions  
 Generally Aggravated by Exposure: N.A.

Emergency and First Aid Procedures  
 IF SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF EYE CONTACT OCCURS, FLUSH THOROUGHLY WITH WATER AND SEEK MEDICAL TREATMENT. IF INGESTION OCCURS, DILUTE STOMACH CONTENTS WITH SEVERAL GLASSES OF WATER AND SEEK MEDICAL TREATMENT.

Section VII - Precautions for Safe Handling and Use  
 Steps to Be Taken in Case Material is Released or Spilled  
 CLEAN UP WITH A VACUUM CLEANER

Waste Disposal Method  
 DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions to Be Taken in Handling and Storage  
 CLOSE CAP TIGHTLY AND STORE IN A COOL, DRY AND DARK PLACE.

Other Precautions  
 AVOID COMBUSTION.

Section VIII - Control Measures

Respiratory Protection (Specify Type)  
 NONE REQUIRED UNDER NORMAL USE.

Use of Engineering Controls	Use of Administrative Controls	Use of Personal Protective Equipment
NONE REQUIRED UNDER NORMAL USE.	NONE REQUIRED UNDER NORMAL USE.	NONE REQUIRED UNDER NORMAL USE.
NONE REQUIRED UNDER NORMAL USE.	NONE REQUIRED UNDER NORMAL USE.	NONE REQUIRED UNDER NORMAL USE.

Fire/Fighters Only  
 NONE REQUIRED UNDER NORMAL USE.

Other Precautions  
 NONE REQUIRED UNDER NORMAL USE.

Work Hygiene Practices  
 AVOID INHALATION, INGESTION, SKIN OR EYE CONTACT.