

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733-1110

05-16
5314

MATERIAL SAFETY
DATA SHEET



DIVISION: OFFICE DOCUMENT SYSTEMS DIVISION

TRADE NAME:

3M BRAND TYPE 409 TONER (N-P)

3M I.D. NUMBER: 78-6969-6130-5 78-6969-6231-1

ISSUED: AUGUST 25, 1992

SUPERSEDES: AUGUST 28, 1991

DOCUMENT: 10-5028-5

S/C # 494

1. INGREDIENT	C.A.S. NO.	PERCENT
STYRENE-ACRYLATE COPOLYMER	27136-15-8	85.0 - 95.0
CARBON BLACK	1333-86-4	3.0 - 7.0
POLYPROPYLENE	9003-07-0	1.0 - 5.0
AMMONIUM SALT	56-37-1	1.0 - 5.0

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY:..... N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: nil
SP. GRAVITY:..... ca. 1.15 Water = 1
PERCENT VOLATILE: nil
VOLATILE ORGANICS: N/A
VOC LESS H₂O & EXEMPT SOLVENT N/A
pH: N/A
VISCOSITY: N/A
MELTING POINT..... N/D
APPEARANCE AND ODOR: Fine black powder, essentially odorless

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL: N/A
FLAMMABLE LIMITS - UEL: N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Water spray, Carbon dioxide, Dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Avoid direct stream of water or dry chemical, which may cause powder
to become airborne.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Concentrated airborne dust clouds are potential explosion hazards.
Avoid creating airborne dust hazards.
NFPA-HAZARD-CODES: HEALTH 1 FIRE 1 REACTIVITY 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
None known.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION-PRODUCTS:
Combustion products may include styrene, carbon monoxide and carbon

Abbreviations: N/D - Not Determined, N/A - Not Applicable

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4. REACTIVITY DATA (continued)

dioxide, and carbon particulates.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

OBSERVE PRECAUTIONS IN OTHER SECTIONS. VACUUM, USE WET SWEEPING COMPOUND OR WET DOWN WITH WATER TO AVOID DUSTING. POWDER LEFT ON FLOOR MAY RESULT IN A SLIPPERY SURFACE.

RECOMMENDED DISPOSAL:

DISPOSE OF PRODUCT IN A SANITARY LANDFILL IN ACCORDANCE WITH APPLICABLE REGULATIONS.

ENVIRONMENTAL DATA:

N/A

SARA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:

IN CASE OF EYE CONTACT, FLUSH EYES WITH PLENTY OF WATER AND CONTACT A PHYSICIAN.

SKIN CONTACT:

N/A

INHALATION:

IF RESPIRATORY IRRITATION OCCURS, MOVE TO FRESH AIR.

IF SWALLOWED:

N/A

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Not required under normal use and handling.

VENTILATION PROTECTION:

Use with normal indoor ventilation.

RESPIRATORY PROTECTION:

Not required under normal use and handling.

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating.

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7. PRECAUTIONARY INFORMATION (continued)

RECOMMENDED STORAGE:

Store away from heat.

FIRE AND EXPLOSION AVOIDANCE:

Keep away from heat, sparks, open flame, and other sources of ignition.

OTHER PRECAUTIONARY INFORMATION:

When adding toner to reader-printer, avoid creating an airborne dust, which could create an eye or inhalation irritation hazard. Avoid any ignition sources when adding toner.

Store toner below 95F to avoid toner powder clumping. Keep out of reach of children.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
STYRENE-ACRYLATE COPOLYMER	NONE	NONE	NONE	NONE	
CARBON BLACK	3.5	mg/m3	TWA	ACGIH	
CARBON BLACK	3.5	mg/m3	TWA	OSHA	
POLYPROPYLENE	NONE	NONE	NONE	NONE	
AMMONIUM SALT	NONE	NONE	NONE	NONE	

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

DUST MAY CAUSE SLIGHT EYE IRRITATION.

SKIN CONTACT:

NO ADVERSE HEALTH EFFECTS ARE EXPECTED.

INHALATION:

DUST MAY CAUSE RESPIRATORY SYSTEM IRRITATION.

IF SWALLOWED:

NO ADVERSE HEALTH EFFECTS ARE EXPECTED.

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SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	AUGUST 28, 1991 ISSUE
FIRE & EXP. DATA	SECTION CHANGED SINCE	AUGUST 28, 1991 ISSUE
REACTIVITY DATA	SECTION CHANGED SINCE	AUGUST 28, 1991 ISSUE
PRECAUT. INFO.	SECTION CHANGED SINCE	AUGUST 28, 1991 ISSUE

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The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.