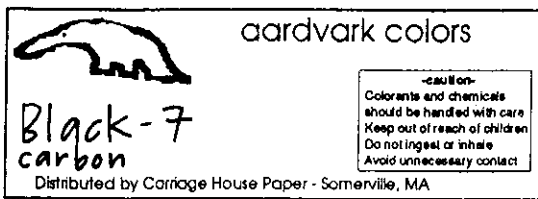


MATERIAL SAFETY DATA SHEET:



SECTION 1-Chemical Product

Product/Trade Name : TI-TINT BLACK #15
CAS. Number: Mixture
Date Printed: 12-Dec-02
Revision Date: 27-Aug-01
Supersedes: 22-Jun-01

Customer Product Code: N/D
Product Type: Aqueous Dispersion
Chemical Name: See Section 2 for ingredients.

SECTION 2-Composition and Information on Ingredients

<u>Ingredients:</u>	<u>CAS. No.:</u>	<u>Target %:</u>	<u>OSHA Hazard*</u>
Water	7732-18-5	<68.0	N
Carbon Black	1333-86-4	32.0	Y
Dispersing/gelling agents(s)	mixture	proprietary	N

*The substances(s) marked with a Y in the OSHA Hazard column above, are identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Exposure Limits: No specific limits are established for this dispersion; therefore the OSHA limits for nuisance levels should be observed unless otherwise noted.

OSHA PEL / 8 Hr / TWA

Total dust: 3.5 mg/m³

ACGIH TLV / 8 Hr / TWA

Total dust: 3.5 mg/m³

SECTION 3-Hazard Identification

Emergency Overview: May form combustible black powder. Some grades are electrically conductive.

Carcinogenicity: IARC has classified Carbon Black as a Category 2B, known animal carcinogen, possible human carcinogen.

Potential Exposure: **Eyes:** May cause mechanical eye irritation.

Skin: Repeated or prolonged contact may cause drying of skin.

Ingestion: Practically non-toxic, no adverse health effects expected.

Inhalation: Temporary discomfort to upper respiratory tract may occur due to inhalation of high dust levels above the 8-hour exposure limit.

SECTION 4-First Aid Measures

- Eyes:** Flush with plenty of water for 15 minutes. Washing immediately is essential to achieve maximum effectiveness. Consult a physician if irritation develops.
- Skin:** Wash with soap and water. Launder clothes before reuse. Consult a physician if irritation persists.
- Ingestion:** If victim is conscious and alert give several glasses of water do not induce vomiting. Not hazardous. Symptomatic treatment is recommended.
- Inhalation:** Remove to fresh air, in extreme respiratory distress administer CPR / oxygen. Seek medical attention.

SECTION 5-Fire Fighting Measures

- | | | |
|---|----------------------------|---------------------------------|
| Material flammable, explosive, or combustible?
Non-flammable as supplied. | Flash Point:
N/E | Explosive Limits:
N/E |
|---|----------------------------|---------------------------------|
- Combustion Hazards:** Oxides of carbon.
- Extinguishing Media:** Use water spray, chemical foam, dry chemical, or carbon dioxide.
- Protective Equipment:** Wear self-contained breathing apparatus in confined areas

SECTION 6-Accidental Release Measures
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- Personal Protection:** Proper industrial hygienic practices with rubber gloves, safety goggles and an approved NIOSH dust/mist respirator. Launder clothes before reuse.
- Spill Procedure:** Cover with absorbent material. Sweep, shovel or vacuum into a closed container. Do not put into public waterways or sewer systems. Dispose of at an approved chemical disposal or incineration facility in compliance with all current Local, State and Federal regulations.
- CERCLA (RQ):** N/A

SECTION 7-Handling and Storage

- Handling:** Observe good industrial hygienic practices and safety practices. Avoid prolonged or repeated skin contact. Wash thoroughly before eating, drinking, smoking or applying cosmetics.
- Storage:** Protect from freezing. Mix before use. Storage temperature range 50° - 120°F recommended. Keep drums covered when not in use to avoid evaporation and/or contamination.

SECTION 8-Exposure Controls and Personal Protection
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Precautionary Statements: Avoid contact and/or breathing dust formed from dried material and as good industrial hygiene the apparel listed below is recommended when handling. Wash exposed areas thoroughly after handling.

- Eye Protection:** Chemical safety glasses. **Gloves:** Rubber coated gloves.
- Protective Clothing:** Long sleeved work clothing. Launder clothes before reuse.
- Respiratory:** NIOSH approved dust/mist respirator in compliance with 29 CFR 1910.34.

SECTION 9-Physical and Chemical Properties

Physical State Liquid	Color Black	pH 8.5 +	Odor None
Freeze Point / Boiling Point 32°F / 212°F	Specific Gravity 1.18	% Active Solids 32.0	% Volatile by Volume <68.0

SECTION 10-Stability and Reactivity

Chemical Stability:	Stable
Hazardous Polymerization:	Will not occur.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition:	Oxides of carbon.

SECTION 11-Toxicological Information

Routes of Exposure:	As supplied primary routes of occupational exposure are eye and skin contact.
Toxicological Data: (active ingredient)	Like any nuisance dust dried material formed from the carbon black may aggravate pre-existing respiratory disorders like bronchitis or asthma. Contains less than 0.1% of absorbed polynuclear aromatic hydrocarbons. In non-absorbed form, some PAH's were found to be carcinogens, however no carcinogenic effect has been found in humans due to exposure.
Chronic Effects:	Carcinogenicity: IARC has classified Carbon Black as a Category 2B, known animal carcinogen, possible human carcinogen. Not listed as a carcinogen by, NTP or OSHA.

SECTION 12-Ecological Information

Ecological Data: (active dry ingredient)	Carbon Black
Mobility:	Carbon black is not soluble in water.
Degradability:	Aqueous portion will evaporate, carbon black not expected to degrade.
Ecotoxicity:	Acute fish toxicity: LC50 (96-hr)>100mg/l, Brachydanio rerio (zebrafish), (OECD Guideline 203). Acute water flea toxicity: EC50 (24-hr)>5600 mg/l. Daphnia Magna (water flea), (OECD Guideline 202). Acute algae toxicity (scenedesmus subspicatus) (OECD Guideline 201): EC50 (72-hr)> 10,000 mg/l NOEC≥ 10,000 mg/l.
Behavior in water treatment plants:	Activated sludge, EC0 (3-hr) ≥ 800 mg/l. DEV 13 (TTC test).
Bio-Accumulation:	Potential bioaccumulation is not expected because of physical-chemical properties of the substance.

SECTION 13-Disposal Considerations

Hazardous waste classification under federal regulations (40 CFR Part 261 et seq.) is dependent upon whether the material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics":

Ignitability (Section 5, flash point)

Reactivity (Section 10, incompatible materials)

Corrosivity (Section 9 & 14, pH/DOT Corrosivity)

Toxicity (Section 2 for composition.)

RCRA Status: Not regulated.

Check your State and local regulations, which may be more stringent than the federal regulations. Technical Industries, Inc. provides this data for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Container Disposal: Empty drums retain residue, observe label safeguards until the drum is clean and/or destroyed.

SECTION 14-Transport Information

Carbon black is not classified as a hazardous material by the following country/agencies:

U.S. Dept. of Transportation	Canadian Transport of Dangerous Goods Reg.	IMDG-Code
United Nations (no UN number)		ICAO-TI

DOT Classification: Not Regulated

Placard Regulations: Not required.

SECTION 15-Regulatory Information

Chemical Registries: All functional chemical components of this product are listed on the TSCA Inventory.

National Registries: Australia: AICS Canada: CEPA Europe: EINECS Japan: MITI Korea: TCCL
 WHMIS, class D2A

SARA Hazards Notification, Title III Rules for active dry ingredient(s): Carbon Black

SARA Title III: Section 311/312 The active ingredient, carbon black, is subject to EPA's "Hazardous Chemical Reporting & Community R-T-K."

Tier I and/or Tier II forms need to be submitted if carbon black is present in quantities greater than 10,000 pounds at any one time.

MSDS Requirements: This material should be reported as hazardous and reported under the following EPA hazard categories: *Delayed (chronic) health hazard.*

CERCLA, 40 CFR 302: Carbon black is not a hazardous substance under Comprehensive Environmental Response, compensation & Liability Act.

U.S. Clean Air Act, 1990: Carbon black is not made with any Class I or II ozone depleting substances.

Clean Water Act Amendments of 1990 (CCA 40 CFR): Not listed.

SECTION 15-Regulatory Information (continued)

R-T-K LA: State legislation requires Carbon Black inventory reporting when the 500 lbs. (dry basis) threshold is exceeded on any single day through state "RTK channels".

Spill or loss of 5,000 lbs. (dry basis) requires immediate response to the Hazardous Material Hotline @ (504) 925-6596.

NJ: Carbon Black - CAS# 1333-86-4

SECTION 16-Other Information

The following handling guidelines are suggested for this material as supplied:

Hazard Rating System		Index	
Health	1	0 = Minimal	3 = Serious
Fire	0	1 = Slight	4 = Severe
Reactivity	0	2 = Moderate	B = Eye Protection/Gloves
Personal	B		E = Eye Protection/Gloves/Dust Mask

Food Contact Regulations: Carbon black is permitted for indirect contact with food and drugs when used as a filler in rubber articles intended for repeat use under 21 CFR (Code of Federal Regulations) 177.2600.

Miscellaneous Information: Concentration of alkyl phenol ethoxylate: NONE
 Concentration of nonyl phenol ethoxylate: NONE

MSDS information supplied by: Cabot Corp.

Revision Information: Revised Sections 12, 15 & 16. Section 2 listed of ingredients by percent composition of total.

Prepared By: F. Steven DiMasi, VP Mfg/QA

Glossary: N/A- Not Applicable N/D- No Data N/E- Not Established