

SAFETY DATA SHEET

CARBOMIX® Black Masterbatch 1606K, 1606R, 1609

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name Styrene-Butadiene Rubber, Non-Staining Oil Extended Carbon Black Masterbatch
Supplier Lion Copolymer LLC
5955 Scenic Highway, Baton Rouge, LA 70805
Emergency telephone (225) 267-3608
E-mail: SBR.MSDS@lioncopolymer.com
Product use General purpose rubber articles and rubber modified articles

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>Max.Wt.%</u>	<u>Hazard Classification</u>
1,3-Butadiene polymer styrene	9003-55-8	NA (polymer)	62	NH
Carbon Black	1333-86-4	215-609-9	32	IARC 2B Possible Carcinogen
Heavy Paraffinic Distillate Solvent Extract	64742-04-7	265-103-7	8	Carcinogen, Irritant (T; R45)
Disproportionated Tall Oil	61790-12-3	263-107-3	5	Irritant
Disproportionated Rosin	8050-09-7	232-475-7	5	Inhalation & skin sensitizer

3. HAZARDS IDENTIFICATION

Human health hazards: Aromatic oil is listed as human carcinogen by IARC and OSHA. Heating may release small amounts of volatile irritants.
Environmental hazards: Not available.
Physical/chemical hazards: The material burns slowly with high smoke density.
HMIS Hazard Classification: Health: 2 Flammability: 1 Physical Hazard: 0 Protection: B

4. FIRST AID MEASURES

Inhalation: If fumes/vapors are inhaled, move to fresh air, aid breathing if necessary. Get medical attention if irritation persists.
Eye Contact: Remove as for any foreign object. Flush with clean water for 15 minutes. Get medical attention if irritation persists.
Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion: Unlikely to occur. Contact Poison Control Center.
Note to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing media: Water, water/foam, carbon dioxide, ABC fire extinguisher powder.
Unsuitable Extinguishing media: No restrictions.
Special exposure hazards: None known.
Combustion products: Carbon monoxide, carbon dioxide, incomplete combustion products.
Protection of firefighters: Fire fighters should wear full protective clothing including self-contained breathing apparatus. Keep personnel removed and upwind of fire.
NFPA Hazard Classification: Health: 2 Flammability: 1 Reactivity: 0 Special: --

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use protective gloves (see section 8).
Methods for cleanup: In case of large spills: Collect spilled material and reuse if possible. In case of small spills: collect spilled material in containers, and dispose appropriately.

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7. HANDLING AND STORAGE

Handling	When using do not eat, drink or smoke. Avoid inhalation of fumes/vapors from hot rubbers, compounds and vulcanizates. Avoid repeated or prolonged contact with skin. Wear gloves and wash hands after handling.
Storage	Store in a clean, dry, dark area to maintain product quality. Keep in original containers or use black covers to protect from artificial or natural light. Outdoor storage should be avoided. The preferred storage temperature is 15-25 C. NFPA Class IIIB Storage, Flash point > 200F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values Engineering controls	Not defined for this material. A ventilation system should be installed where processing at high temperatures e.g. vulcanization, is carried out and where bales are being ground or machined. Local exhaust ventilation is recommended during all hot processing operations.
Personal protection General	General hygiene considerations are appropriate when used as recommended. The following precautions are recognized as common good industrial hygiene practice. Emergency conditions may require additional precautions.
Respiratory	Not normally required at ambient temperatures. Avoid inhalation of fumes/vapors from hot rubbers, compounds and vulcanizes. If processing in area where ventilation is inadequate or ignition has occurred, wear a NIOSH-approved organic vapor respirator.
Eyes & Skin	Avoid contact with eyes and skin and wash thoroughly after handling and before eating or drinking. Wear heat resistant gloves, arm protection and face shield when working with hot material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, Bales
Color	Black with gray bale coating
Odor	Odorless to weak aromatic
pH:	NA
Boiling point/ Range	Not established
Flash Point	> 218 C
Flammability:	No, but the product will burn if ignited.
Explosive properties:	Not explosive
Oxidizing properties:	Not an oxidizer
Vapor pressure:	NE, Negligible
Relative density:	1.10 – 1.15
Solubility in water:	Insoluble
Solubility in fats/ oils	NE
Partition Coefficient (n-octanol-water):	NE
Viscosity	NE
Vapor Density	NA
Evaporation rate:	NA
Volatile (% by weight, @105°C):	0.75 max
Auto Ignition Temperature:	> 388 C (730 F)
Decomposition temperature	> 300 C

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10. STABILITY AND REACTIVITY

Chemical Stability:	Product is stable at ambient temperature and pressure.
Conditions to Avoid:	High temperature, 300-350 C (572-662 F) will cause thermal decomposition.
Incompatible Materials:	None known.
Hazardous Decomp. Products:	Carbon monoxide, carbon dioxide, silicates and partially oxidized hydrocarbons.
Hazardous Reactions:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity to Humans	Aromatic Extract Oils are carcinogens, other components are skin sensitizers or may be irritants.
Toxicity to Animals Components:	Aromatic Extract Oils are IARC animal carcinogens. See Section 15.

12. ECOLOGICAL INFORMATION

Mobility	Not available.
Persistence/degradability	Not biodegradable.
Bioaccumulative potential	None
Ecotoxicity	There is no indication that this material is toxic to the environment.

13. DISPOSAL CONSIDERATIONS

Methods of disposal	Reuse if possible. Material as supplied is not characterized as hazardous under RCRA (Resource and Conservation Recovery Act). Dispose of contaminated materials and other waste materials as directed by local, state and federal regulations. Improper disposal of excess wastes is a violation of federal law.
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14. TRANSPORT INFORMATION

USA	Not regulated as hazardous by DOT regulations.
Canada	Not regulated as hazardous by Canadian Transportation of Dangerous Goods Regulations
Europe	Not regulated as hazardous by European Transportation of Dangerous Goods Regulations
Canada	Not regulated under the Canadian Transportation of Dangerous Goods Regulations.
IATA	Not regulated.

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15. REGULATORY INFORMATION

OSHA	Aromatic Petroleum Oil is carcinogenic. Tall oil and Rosin are irritants.
FDA:	Not approved for food or direct or indirect contact with foodstuffs.
SARA Title III:	Section 302/304. Extremely Hazardous Substances - None. Section 311. Hazardous Substances - Acute, Chronic. Section 313. Contains polynuclear aromatic hydrocarbons, < 0.1%
TSCA & EINECS	Components are listed
CA65	Mineral oils and unbound, respirable carbon black are "Known to California to Cause Cancer or Reproductive Effects".
EU Risk Phrases	Symbol: T Toxic & Xn Harmful Risk Phrases: R45, May cause cancer & R43, May cause sensitization by skin contact Safety Phrases: S53-45 & S2-24-37 Contains: Aromatic oil extract, Disproportionated rosin acid.

16. OTHER INFORMATION

None of the materials referenced herein should be used and/or applied in any product, device or material used or for use as human body implant or otherwise within the human body.

Recommended application(s): Elastomeric component in rubber compounds, for applications in automotive, construction, wire and cable and general rubber goods

OSHA 29 CFR 1910.1200 and WHMIS (Canada) and many U. S. state 'Right-to-know' legislation considers products containing 0.1% by weight or more of an ingredient known to be carcinogenic as a carcinogen, if no test data on the mixture is available.

Aromatic Petroleum Oils have caused skin tumors in laboratory animals according to IARC. They contain polynuclear aromatic substances that have caused cancer in laboratory animals. It is not known whether the repeated, prolonged skin contact of the rubber containing the aromatic petroleum oil presents a skin cancer risk to humans.

EU Safety Phrases: S2, Keep out of the reach of children; S24, Avoid contact with skin; S37, Wear suitable gloves; S45, In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible); S53, Avoid exposure - obtain special instructions before use.

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