

SAFETY DATA SHEET

CARBOMIX® Black Masterbatch 1608, 1847K&R, 1848R, 3651

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name Styrene-Butadiene Rubber, Aromatic 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 staining 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>
Styrene-Butadiene copolymer	9003-55-8	NA (polymer)	66	NH
Carbon Black	1333-86-4	215-609-9	40	Possible Carcinogen
Heavy Paraffinic Distillate Solvent Extract	64742-04-7	265-103-7	27	Carcinogen, Irritant (T, R45)
Disproportionated Tall Oil	61790-12-3	263-107-3	6	Irritant
Disproportionated Rosin	8050-09-7	232-475-7	6	Sensitizer (Xn, R43)

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.

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.

SAFETY DATA SHEET

**CARBOMIX® Black Masterbatch
1608, 1847K&R, 1848R, 3651**

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. vulcanisation, 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 vulcanizates. If processing in area where ventilation is inadequate or ignition has occurred, wear a NIOSH-approved organic vapor respirator.
Eyes & Skin	Wear heat resistant gloves, arm protection and face shield when working with hot material. Avoid contact with eyes and skin and wash thoroughly after handling and before eating or drinking.

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	> 300 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:	> 246 C (475 F)
Decomposition temperature	> 300 C

10. STABILITY AND REACTIVITY

Chemical Stability:	Product is stable at ambient temperature and pressure.
Conditions to Avoid:	Extreme temperature, 300-350 C (572-662 F) will cause thermal decomposition.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomp. Products:	Carbon monoxide, 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	Aromatic Extract Oils are IARC animal carcinogens.
Components:	May cause sensitization by inhalation and skin contact. See Section 15.

12. ECOLOGICAL INFORMATION

Mobility	Not available.
Persistence/degradability	Not available.
Bioaccumulative potential	Not available.
Ecotoxicity	Not available.

SAFETY DATA SHEET

CARBOMIX® Black Masterbatch 1608, 1847K&R, 1848R, 3651

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.

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.

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 311/312. Acute, Chronic.
Section 313. Contains polynuclear aromatic hydrocarbons, < 0.1%
Components are listed
TSCA & EINECS Carbon black dust and mineral oils are Known to California to Cause Cancer or Reproductive Effects.
CA65 Symbol: T Toxic & Xn Harmful
EU Phrases: 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.

All information supplied by or on behalf of Lion Copolymer in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and believed reliable, but Lion Copolymer assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use of the aforementioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to Lion Copolymer for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer.

Revision History:

Date Prepared: 6/28/2011 by LarryHarris
Supersedes: 6/22/2007
MSDS ID: SBR 1847