# **Carbomix Black Masterbatch**

#### 1. GENERAL INFORMATION

Chemical Name:

CAS Number:

CAS Name (Rubber only):

Applicable Grades:

Product Use: Prepared by:

Telephone No.:

Manufactured by:

Street Address: Mailing Address:

Date prepared: Supersedes:

Styrene-Butadiene Rubber, Carbon Black Masterbatch

NA/mixture (see Section 1)

1,3-Butadiene polymer with Ethenylbenzene

1605, 1620, MDS515

Rubber articles and rubber modified articles

Environmental and Safety Services

(504) 355-5655

Copolymer Rubber & Chemical Corporation

5955 Scenic Highway, Baton Rouge, LA 70805

P. O. Box 2591, Baton Rouge, LA 70821

June 18, 1993 CR 2253(R 9/90)

#### 2. CHEMICAL COMPOSITION

Ingredient	CAS#	Wt. % Maximum	Hazard Classification
Styrene-Butadiene Rubber	9003-55-8	67	NH
Disproportionated Tall Oil	61790-12-3/8052-10-6	<b>`6</b>	(see Section 3)
Carbon Black	1333-86-4	35	Hazardous by OSHA
Phosphited Polyalkyl Polyphenol	Not assigned	1.7	NH
Aluminum Silicate(a)	22708-90-3	7	Hazardous by OSHA
			(a)Type MDS515 only

## 3. FIRE AND EXPLOSION HAZARD DATA

Flash Point Method:

Auto Ignition Temperature:

Ignition Temperature:

Combustible:

Upper/Lower Flammable Limits:

Hazardous Combustion Products:

Extinguishing Media:

Special Fire Fighting Procedure:

Upper/Lower Explosive Level: Sensitivity to Impact/Shock: Sensitivity to Static Discharge:

At temperature above 388 °C (730 °F)

246 °C (475 °F)

Yes, with the presence of an ignition source.

NE Carbon monoxide, carbon dioxide, products from incomplete combustion, oxides of

sulfur and nitrogen, acrid fumes and toxic gases.

Most fire extinguishing media permitted - water recommended; carbon dioxide not

During emergency conditions, exposure to thermal decomposition products may cause a health hazard. Use of NIOSH approved self contained breathing apparatus is

recommended.

NA NA NA

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4305

NFPA FIRE **HAZARDS** IDENTIFICATION SYSTEM



4 - Extreme

3 - High 2 - Moderate

1 - Slight 0 - Insignificant

(Continued on reverse.)

CR2253 issued 9/93

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4. PHYSICAL DATA

Physical State:

Solid, bales; MDS515 particulate

Appearance:

Black, with grey bale coating; grey particles MDS515

Odor:

None

Odor Threshold:

ΝE

Melting/Freezing Points: Specific Gravity:

NA

**Boiling Point:** 

1.0-1.1

Vapor Pressure: Vapor Density:

NA NA NA

Volatiles (% by weight, @ 100 °C): Solubility in Water at 20 °C:

0.50 max. Insoluble

Coefficient of Water/Oil Distribution: pH:

NE

Evaporation rate:

NA NA

#### 5. SPECIAL REGULATORY HAZARD-HEALTH, SAFETY, AND FOOD

Carbon Black and Aluminum Silicate are considered a nuisance dust hazard by 29 CFR

1910.1000 Subpart Z-1 (see Note 1).

TSCA: FDA:

Components of this product are listed under TSCA Chemical Substance Inventory. All grades can be used in complying with 21 CFR 177.2600, 'Rubber Articles Intended

for Repeated Use'.

DOT:

United States: Designation and labeling not applicable as product is not defined or designated as a hazardous material by U.S. Department of Transportation under Title 49

of CFR.

Canada: Not regulated under the Canadian Transportation of Dangerous Goods

Regulations.

SARA Title III:

Section 302/304: Extremely Hazardous Substances - None.

Section 311: Hazardous Substances - Not Applicable.

WHMIS:

Section 313: This product is not subject to reporting requirements (See 40 CFR372). This product is considered a Controlled Products under Canada's Workplace Hazardous Material Information System because it contains 1.2-2.0 weight percent Oleic acid, CAS No. 112-80-1 (a component in the Disproportionated Tall Oil), and Carbon Black.

LD50 Oleic acid

Hazard

74gm/kg (rat, oral)

LC50 Unknown

Skin irritant

Carbon Black

Unknown

Unknown

Nuisance dust

CEPA: EEC:

Components of this product are included in Canada's DSL. This product is not considered hazardous by the European Economic Community.

# 6. TOXICOLOGICAL AND HEALTH DATA

Specific Hazard:

Medical Conditions

Aggravated by Exposure:

No acute hazards or effects are known.

Some individuals with specific sensitivities may exhibit eye, nose, throat, or thermal

irritation with prolonged exposure to processing fumes or vapors.

Routes of Exposure: Eye Contact: Not a probable source of exposure. Particulates may scratch eye

surface or cause irritation.

Skin Contact: A single prolonged exposure is not likely to result in material being absorbed through the skin in a harmful amount. Repeated exposures may cause moderate skin irritation. Exposure to hot material may cause thermal burns.

Ingestion: Not a probable route of exposure.

Inhalation: Not a probable route of exposure under conditions of normal use. Hot fumes or vapors which may form during processing can cause irritation to the respiratory

Toxicology Information:

Reproductive Effects: None reported Teratogenicity: None reported Mutagenicity: None reported Carcinogenicity: None reported

Others: Skin Irritant: Oleic Acid 15mg/3D-I (Human) Moderate

#### 7. PROTECTIVE AND PREVENTIVE MEASURES

Personal Protective Equipment:

Eve: Wear safety glasses.

Skin: Wear clothing appropriate to prevent skin contact. Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield.

Respiratory: Not normally required at ambient temperatures. If processing in area where ventilation is inadequate, wear a NIOSH approved organic vapor respirator with mechanical filtration. If processing conditions generate dust above PEL, wear NIOSH

approved respirator for nuisance dust.



Handling Procedures and Equipment:

Avoid skin and eye contact, practice good personal hygiene. Avoid inhalation of fumes

or vapors from hot rubbers, compounds, and vulcanizates. Avoid generation of and  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

prolonged breathing of dust.

Engineering Controls:

Exposure Guidelines:

Local exhaust ventilation is recommended during all hot processing operations.

 PEL (OSHA)
 TLV (ACGIH)

 Carbon Black
 3.5 mg/m³
 3.5 mg/m³

 Aluminum Silicate (respirable dust)
 5 mg/m³
 5 mg/m³

8. EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:

Remove as for any foreign object. Flush with clean water for 15 minutes. Obtain

medical attention if irritation persists.

Skin Contact:

Wash with soap and water. If thermal irritation, flush affected area with cold water to dissipate heat, then cover with clean cotton sheeting or gauze and get prompt medical

attention.

Inhalation:

If dust, furnes or vapors are inhaled, move to fresh air, aid breathing. Obtain medical

attention if irritation persists.

Ingestion:

Unlikely to occur.

9. CHEMICAL REACTIVITY

Chemical Stability:

Product is stable at ambient temperature and pressure.

Conditions to Avoid:

Ignition source; product is combustible.

Incompatibility with Other Materials: Hazardous Decomposition Products:

Combustion products will be carbon monoxide, carbon dioxide, oxides of sulfur and

nitrogen, and products from incomplete combustion.

Hazardous Polymerization:

Will not occur.

10. SPILLS, DISPOSAL, STORAGE GUIDELINES

Spill and Release Information:

Repackage uncontaminated rubbers. Reuse or dispose of as noted below if

contaminated.

Disposal Information:

Reuse if possible. Dispose in accordance with local, state and federal regulations and

applicable environmental regulations. Material as supplied is not characterized as

hazardous under RCRA.

Storage:

Store at ambient temperature, keep away from excessive heat and flame.

11. LABELS

OSHA: WHMIS: Not Required

Required

12. ADDITIONAL INFORMATION

Note 1:

Carbon Black, when incorporated into the rubber in the form delivered, is no longer believed to be a nuisance dust hazard by DSM Copolymer. Aluminum silicate may

pose a nuisance dust hazard during processing.

Abbreviations:

ACGIH:

American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

CEPA: Canadian Environmental Protection Act

CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List

EEC: European Economic Community
EPA: Environmental Protection Agency
FDA: Food and Drug Administration (U.S.)
IARC: International Agency for Research on Cancer

LC50: The concentration in air that causes death in 50% of the animals exposed

LD50: The dose that causes death in 50% of the animals exposed

mg/m<sup>1</sup>: Milligrams (mg) of substance per cubic meter (m<sup>3</sup>) of air; method of expressing the

concentration of a substance in air

NA: Not applicable
NE: Not established
NH: Not hazardous

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limits

RCRA: Resource and Conservation Recovery Act
SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Value TSCA: Toxic Substance Control Act

WHMIS: Workplace Hazardous Material Information System



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