

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **PE-535-42**
Product Description: Black Polyethylene Concentrate

MANUFACTURER:
Modern Dispersions, Inc.
78 Marguerite Avenue
Leominster, MA 01453

24 HR. EMERGENCY TELEPHONE NUMBERS:
CHEMTREC (800) 424-9300
Emergency Contact: (978) 534-3370 8AM-5PM
Non Work Hours (978) 870-2068

Modern Dispersions South, Inc.
302 Ed Ward Road
Fitzgerald, GA, 31750

2. HAZARDS IDENTIFICATION

Classification

This product is not considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)
Not classified

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word: None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance: Black **Physical State:** Solid, Granules, Pellets.
Odor: Characteristic plastic odor during heating

Precautionary Statements

Prevention •None
General Advice •None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Contact with molten material will cause thermal burns.
2% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>APPROX. WT.%</u>	<u>OSHA PEL</u>	<u>CAS Registry #</u>
Carbon Black	N/A	3.5 mg/m ³	1333-86-4

Raw materials not mentioned are not considered hazardous ingredients as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact None normally required.
Skin Contact None normally required.
Inhalation None under normal use.
Ingestion None under normal use.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects None known

Indication of immediate medical attention and special treatment needed, if necessary

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO₂). Hydrogen fluoride. Carbonyl fluoride.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear's.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

Personal Precautions: None required for material as supplied.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment None required.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage: Keep away from extreme temperatures.

Incompatible Products : None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines: Potentially hazardous components are incorporated into the Polymer matrix of the product as sold. If product is ground into respirable dust particles potential exposure is possible

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Carbon black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Measures: None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/Face Protection: No special protective equipment required.

Skin and Body Protection: No special protective equipment required.

Respiratory Protection: No special protective equipment required.

Modern Dispersions, Inc.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Solid, Granules, Pellets **Appearance:** Black
Odor: Characteristic plastic odor during heating **Odor Threshold:** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Insoluble in water.	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Auto ignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from flames and hot surfaces.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation None under normal use conditions
Eye Contact None under normal use conditions.
Skin Contact None under normal use conditions.
Ingestion None under normal use conditions.
Component Information No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritation None.
Eye damage/irritation None.
Irritation None known.
Sensitization No information available.
Mutagenic Effects No information available.
Carcinogenicity This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon black	A3	Group 2B	-	X

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans

Reproductive Toxicity None known.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration Hazard Not applicable

Numerical measures of toxicity - Product

Acute Toxicity 2% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data is available at this time. This material is an inert plastic product. No adverse environmental effects are expected from normal use or disposal

Chemical Name	Toxicity to Algal	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Carbon black 1333-86-4				EC50 24 h: > 5600 mg/L (Daphnia magna)

Persistence and Degradability No information available.
Bioaccumulation No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATION

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations
Contaminated Packaging Not Applicable

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Carbon black	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Carbon black	X	X	X	X	X

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 0 Instability 0 Physical and Chemical Hazards –

HMIS Health Hazard 0 Flammability 0 Physical Hazard 0 Personal Protection X

SDS # Blk-041 Revision #: 4 Date of Revision: 3/1/2017 Supersedes Rev: 3 Date 4/11/2016

THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY MODERN DISPERSIONS, INC. PURSUANT TO OSHA REGULATIONS, 29 CFR 1910.1200. THE INFORMATION PROVIDED IN THE SHEET IS TRUE AND ACCURATE AS THE DATE INDICATED, TO THE BEST OF MODERN DISPERSIONS' KNOWLEDGE. THE INFORMATION IS NOT INTENDED TO COVER EVERY CONCEIVABLE USE OR HANDLING OF THE MATERIAL, AND ACTUAL CONDITIONS OF USE AND HANDLING MAY REQUIRE CONSIDERATIONS OR INFORMATION OTHER THAN, OR IN ADDITION TO, THAT WHICH IS CONTAINED IN THIS SHEET. MODERN DISPERSIONS' DISTRIBUTION OF THE MATERIAL THAT IS THE SUBJECT OF THIS SHEET IS MADE WITHOUT RELIANCE OF ANY KIND ON THIS SHEET, AND THE SHEET IS NOT, AND SHALL NOT BE CONSTRUED AS, A REPRESENTATION OR WARRANTY OF ANY KIND WHATSOEVER OF THE INFORMATION CONTAINED IN THE SHEET OR IN CONNECTION WITH THE DISTRIBUTION OF THE MATERIAL OR THE MATERIAL ITSELF.