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## SAFETY DATA SHEET

Revision Date: 04/25/2013

Print Date: 12/9/2013

MSDS Number: R0292922

Version: 1.9

Hival™ PE HDBM 500354 NAT HIVAL RESIN

™ Trademark, Nexeo Solutions or its subsidiaries, registered in various countries52929

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Nexo Solutions  
PO Box 2458  
Columbus, OH 43216

Regulatory Information Number 1-855-429-2661  
Telephone 1-855-429-2661  
Emergency telephone number 1-855-639-3648

Product name

Hival™ PE HDBM 500354 NAT HIVAL RESIN  
™ Trademark, Nexeo Solutions or its subsidiaries, registered in various countries

Product code

52929

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance: solid, white

NOTICE: WHILE THIS MATERIAL HAS A LOW LEVEL OF TOXICITY, GOOD INDUSTRIAL HYGIENE PRACTICES ARE ENCOURAGED TO MINIMIZE EXPOSURE. CONTACT WITH HOT PRODUCT WILL CAUSE THERMAL BURNS.

#### Potential Health Effects

##### **Exposure routes**

Inhalation, Skin contact, Eye Contact, Ingestion

##### **Eye contact**

Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Molten material causes thermal burns.

##### **Skin contact**

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Unlikely to cause skin irritation or injury. Molten material causes thermal burns.

### Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

### Inhalation

This material is a dust or may produce dust. Prolonged or repeated breathing of this material may result in chronic bronchitis (inflammation of the airways of the lungs). Symptoms include coughing and shortness of breath. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

### Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions)

### Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

### Target Organs

No data

### Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

### Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / trade secret no.	Concentration
OLEFIN POLYMER	9002-88-4	100%

### 4. FIRST AID MEASURES

#### Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention. If eye contact with molten material occurs, hold eyelids apart and flush eyes gently with cool water. Seek immediate medical attention.

#### Skin

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water. If skin contact with molten material occurs, flush exposed area with cool water. Do not forcibly remove material adhering to the skin. Seek immediate medical attention.

#### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

#### Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

#### Notes to physician

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**Hazards:** No information available.

**Treatment:** No information available.

### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Water spray

#### Hazardous combustion products

carbon dioxide and carbon monoxide

#### Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Avoid breathing dust. Plastic pellets may present a slipping hazard when spilled on walking surfaces.

#### Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Pick up and arrange disposal without creating dust.

#### Other information

Comply with all applicable federal, state, and local regulations.



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### 7. HANDLING AND STORAGE

#### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Avoid dust formation. Generally, flame retardant additives and pigment additives are encapsulated in an impervious plastic matrix. These additives are not expected to present a hazard.

#### Storage

Store in a cool, dry, ventilated area.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

OLEFIN POLYMER	9002-88-4
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#### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities. These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Avoid breathing dust.

#### Exposure controls

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Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects. Provide appropriate exhaust ventilation at places where dust is formed.

### Eye protection

Wear safety glasses or chemical splash goggles when dust exposure is possible.

### Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Consult your safety products supplier for proper protective equipment to use in thermal processing operations.

### Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	solid
Colour	white
Odour	FaintMild hydrocarbon odor
Boiling point/boiling range	/ not applicable
Melting point/range	Melting point/range 464 °F / 240 °C



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pH	not applicable
Flash point	not applicable
Evaporation rate	not applicable
Vapour pressure	0.000 hPa
Density	0.953 g/cm3 @ 77.00 °F / 25.00 °C
Auto-ignition temperature	(>)680 °F / 360 °C
Viscosity, kinematic	not applicable

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

Keep away from heat, flame, sparks and other ignition sources.

### Incompatible products

Strong oxidizing agents

### Hazardous decomposition products

carbon dioxide and carbon monoxide

### Hazardous reactions

Product will not undergo hazardous polymerization.

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

Acute oral toxicity - : LD 50: &gt; 3,000 mg/kg Species: Rat

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**Product****Acute oral toxicity - Components**

OLEFIN POLYMER : LD 50: &gt; 3,000 mg/kg Species: Rat

**Acute inhalation toxicity**Acute inhalation toxicity - : no data available  
Product**Acute dermal toxicity**Acute dermal toxicity - : no data available  
Product**Acute toxicity (other routes of administration)**Acute toxicity (other : no data available  
routes of administration)**12. ECOLOGICAL INFORMATION****Biodegradability**

Biodegradability - Product : no data available

**Bioaccumulation**

Bioaccumulation - Product : no data available

**Ecotoxicity effects****Toxicity to fish**

Toxicity to fish - Product : no data available



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### Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and : no data available  
other aquatic invertebrates  
- Product

### Toxicity to algae

Toxicity to algae - : no data available  
Product

### Toxicity to bacteria

Toxicity to bacteria - : no data available  
Product

## 13. DISPOSAL CONSIDERATIONS

### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

## 14. TRANSPORT INFORMATION

### REGULATION

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ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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### U.S. DOT - ROAD

Not dangerous goods

### U.S. DOT - RAIL

Not dangerous goods

### U.S. DOT - INLAND WATERWAYS

Not dangerous goods

### TRANSPORT CANADA - ROAD

Not dangerous goods

### TRANSPORT CANADA - RAIL

Not dangerous goods

### TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID



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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment. Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### 15. REGULATORY INFORMATION

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### SARA Hazard Classification

#### SARA 311/312 Classification

No SARA Hazards

#### SARA 313 Component(s)

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### New Jersey RTK Label Information

OLEFIN POLYMER	9002-88-4
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#### Pennsylvania RTK Label Information

OLEFIN POLYMER	9002-88-4
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#### Notification status

Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Switzerland. Consolidated Inventory	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)



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Japan. Kashin-Hou Law List	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	y (positive listing)
New Zealand. Composite List of Single Component Substances to be considered for Transfer	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)

	HMIS	NFPA
Health	0	0
Flammability	0	1
Physical hazards	0	
Instability		0
Specific Hazard	--	--

### 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO<sup>TM</sup> Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

Attn: Jan e Kore

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## Paxon™ AL55-003

### High Density Polyethylene Resin

#### Product Description

AL55-003 is a blow molding grade high density polyethylene offering a good combination of stiffness and stress crack resistance.

#### General

Availability <sup>1</sup>	• Latin America	• North America	• South America
Additive	• Thermal Stabilizer Yes	• Antistatic No	
Applications	• Drainage Pipes • Food packaging	• Household and Industrial chemical containers • Pharmaceutical Packaging	• Thermoformed Parts • Thin Gauge Sheet
Revision Date	• March 2010		

#### Resin Properties

	Typical Value	Unit	Test Based On
Density	0.954	g/cm <sup>3</sup>	ASTM D4883
Melt Index (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238

#### Thermal

	Typical Value	Unit	Test Based On
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	261	°F	ASTM D1525

#### Molded Properties

	Typical Value	Unit	Test Based On
Tensile Strength at Yield	4100	psi	ASTM D638
Flexural Modulus	190000	psi	ASTM D790
Environmental Stress-Crack Resistance (100% Igepal)	30	hr	ASTM D1693

#### Impact

	Typical Value	Unit	Test Based On
Tensile Impact Strength	90	ft lb/in <sup>2</sup>	ASTM D1822

#### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications

#### Processing Statement

1. Values may change with future development
2. All molded properties were measured on compression molded plaques
3. Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation
4. ESCR tested using Condition B, 100% Igepal
5. AL55-003 has NSF and UL recognition. Contact your ExxonMobil Chemical representative for details
6. AL55-003 has US Pharmacopoeia & European Pharmaceutical recognition



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## Notes

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance

### Worldwide and the Americas

ExxonMobil Chemical Company  
13501 Katy Freeway  
Houston, TX 77079-1398  
USA  
1-281-870-6050

### Asia Pacific

ExxonMobil Chemical Asia Pacific  
1 HarbourFront Place  
#06-00 HarbourFront Tower One  
Singapore 098633  
+66-2-1638699

### Europe, Middle East and Africa

ExxonMobil Chemical Europe  
Hermestaal 2  
1831 Machelen, Belgium  
420-239-016-274

Typical properties: these are not to be construed as specifications

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