Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(as Used on Label and List)*

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's name: TRASH GUARD, INC.

Emergency Telephone Number: 866-520-4362

Address *(Number, Street, City, State and ZIP Code)*: PO Box 10, Roseboro, NC 28382

Telephone Number for Information: 866-520-4362 FAX: 910-525-9950

Date Prepared: May 20, 2008

Signature of Preparer *(optional)*: Tony M. Lockerman, President

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

The main Body of TRASH GUARD is manufactured from HIGH DENSITY POLYETHYLENE (HDPE). HDPE is the most inert of all commodity produced plastic, and in principal all HDPE grades can thus be used in food contact applications. Thus the HDPE base offers excellent chemical resistance, and is considered to be a non-hazardous material. To the Trash Guard HDPE Main Body unit POLYPROPYLENE (PP) raw material based attachments may be Field Installed, if necessary, to conform to irregular Catch Basin Floors. Like HDPE the PP material is also an inert, non-hazardous plastic that is also used in food contact applications, especially Bottle Caps.

HDPE Melt Point: 265-to-280°F PP Melt Point: 293-to-305°F

HDPE Flash Point: 649°F (Butane Burner with very slow Burn Rate (1.00-1.04)

PP Flash Point: 390°F (Open Cup Method)

Section III—Physical/Chemical Characteristics

Boiling Point: N/A		Specific Gravity (H_20 = 1): N/A	
Vapor Pressure (mm Hg): N/A		Melting Point: See Notes above	
Vapor Density (AIR = 1): N/A		Evaporation Rate (Butyl Acetate = 1): N/A	

Solubility in Water: N/A

Appearance and Odor: Black in appearance for HDPE & PP. Flame Fume Odors may be irritating for HDPE & PP.

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
See above Notes	See Above		

Extinguishing Media: Water Spray / Sand

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

(Reproduce locally) OSHA 174 Sept. 1985

Trash Guard, Inc.

P.O. Box 10 • Roseboro, North Carolina 28382
Phone: 866-520-4362 • Fax: 910-525-9950

Section V—Reactivity Data

Stability			Conditions to Avoid
HDPE & PP	Unstable		
	Stable	XX	

Incompatibility *(Materials to Avoid)*

Hazardous Decomposition or Byproducts: Neither HDPE or PP considered a hazardous material

Hazardous Polymerization			Conditions to Avoid
HDPE & PP	May Occur		
	Will Not Occur XX		

Section VI—Health Hazard Data

Route(s) of Entry: Inhalation? N/A | Skin? N/A | Ingestion? N/A

Health Hazards *(Acute and Chronic)*

Carcinogenicity: N/A | NTP? N/A | IARC Monographs? N/A | OSHA Regulated? None for HDPE or PP

Signs and Symptoms of Exposure: N/A

Medical Conditions Generally Aggravated by Exposure: N/A

Emergency and First Aid Procedures: N/A

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled: N/A

Waste Disposal Method: Re-Attach for re-use, Landfill or recycle

Precautions to Be Taken in Handling and Storing: The HDPE Trash Guard & PP Optional Attachment should be stored out of Sunlight as prolonged exterior storage may result in a loss of strength or quality

Other Precautions: N/A

Section VII—Control Measures

Respiratory Protection *(Specify Type)*: None

Ventilation		
	Local Exhaust: None	Special
	Mechanical *(General)*: None	Other

Protective Gloves: None | Eye Protection: Protective glasses if installing with saws/drills.

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: None

ExxonMobil Chemical

Paxon™ HDPE
BA50-100

Product Description

BA50-100 is a high molecular weight, high density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity.

General

Availability [1]	• Latin America	• North America	• South America
Additive	• Antistatic: No	• Heat Stabilizer: Yes	
Applications	• Automotive Dunnage • Automotive Fuel Tanks (monolayer)	• Heavy Gauge Sheet • Large Part Blow Molding	• Pallets • Recreational Thermoformed Parts
Uses	• Automotive Applications • Blow Molding Applications	• Sheet • Tanks, Fuel	
Revision Date	• 6/2006		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Index (190°C/2.16 kg)	< 0.10 g/10 min	< 0.10 g/10 min	ASTM D1238
Density	0.949 g/cm³	0.949 g/cm³	ASTM D4883
High Load Melt Index (190°C/21.6 kg)	10 g/10 min	10 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	158 °F	70.0 °C	
Brittleness Temperature	< -105 °F	< -76 °C	ASTM D746
Vicat Softening Point	248 °F	120 °C	ASTM D1525
CLTE, Flow	0.000067 in/in/°F	0.00012 cm/cm/°C	ASTM D696

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength (Yield)	3770 psi	26.0 MPa	ASTM D638
Tensile Elongation (Break)	1000 %	1000 %	ASTM D638
Flexural Modulus	180000 psi	1240 MPa	ASTM D790
Environmental Stress-Cracking Resistance			ASTM D1693
100% Igepal	> 800 hr	> 800 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength	• 120 ft·lb/in²	• 252 kJ/m²	ASTM D1822
	• 100	• 210	

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. BA50-100 has NSF and UL recognition. Contact your ExxonMobil Chemical representative for details.

Typical properties: these are not to be construed as specifications.

Foodlaw & Medical Use Statement

All high density polyethylene polymer grades can - in principle - be used in food contact applications in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.
ExxonMobil Polyethylene is not intended for use in medical applications.

Notes

[1] Product may not be available in one or more countries in the identified Availability regions. Contact your Sales Representative for complete Country Availability.

Typical properties: these are not to be construed as specifications.

ExxonMobil
Chemical

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company
A Division of Exxon Mobil Corporation

ExxonMobil LLDPE(ALL GRADES)

DATE PREPARED: SEP 6, 2000
MSDS NO.: 89001000

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ExxonMobil LLDPE(ALL GRADES)
CHEMICAL NAME:
Polyethylene or Ethylene-Olefin Copolymer
CHEMICAL FAMILY:
Ethylene-Based Polymer
PRODUCT DESCRIPTION:
Odorless opaque white pellets or granules.

CONTACT ADDRESS:

ExxonMobil Chemical Company,
P-0. Box 3272, Houston, Texas 77253-3272

EMERGENCY TELEPHONE NUMBERS: (24 Hours)
CHEMTREC (800) 424-9300
ExxonMobil Chemical Company (800) 726-2015

NON EMERGENCY TELEPHONE NUMBERS : (Sam-5pm M-F)
FOR GENERAL PRODUCT INFORMATION CALL : (281) 870-6000

FOR HEALTH AND MEDICAL INFORMATION CALL (281) 870-6884

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous as defined in 29 CFR1910.1200

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS EYE CONTACT: Particulates may scratch eye surfaces/cause mechanical irritation.

SKIN CONTACT:
Negligible hazard at ambient temperatures (-18 to +38 degrees C; 0 to 100 degrees F).
Exposure to hot material may cause thermal burns.

INHALATION:

Negligible hazard at ambient temperature (-18 to 38 Deg C; 0 to 100 Deg F)
Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

INGESTION:
Minimal toxicity.

SECTION 4 FIRST AID MEASURES

EYE CONTACT:
This product is an inert solid. If in eye, remove as one would any foreign object.

Continues on page 2

SKIN CONTACT:
For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing, as the damaged flesh can be easily torn.
INHALATION:
In case of adverse exposure to vapors and/or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.
INGESTION:
First aid is normally not required.

SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT:	649 Deg F. NOTE: Estimated Minimum
FLAMMABLE LIMITS:	NOTE: Not applicable
AUTOIGNITION TEMPERATURE:	649 Deg F. NOTE: Estimated Minimum

GENERAL HAZARD
Solid material, may burn at or above the flashpoint, and airborne dust may explode if ignited . If thermally decomposed, flammable/toxic gases may be released. Toxic gases will form upon combustion. Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge
FIRE FIGHTING
Use water spray to cool fire exposed surfaces, protect personnel, and extinguish the fire. Respiratory and eye protection required for fire fighting personnel.
DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS
Under Oxygen lean conditions, Carbon Monoxide (CO) and irritating smoke may be produced.

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL
Recover spilled material and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
WATER SPILL
Plastic pellets are defined by the US EPA under the Clean Water Act (40CFR122.26) as a "significant material" which requires any industrial plant that may expose pellets to storm water to secure a storm water permit. Violations of the rule carry the same penalties as other Clean Water Act violations. Pellets found in storm water runoff are subject to EPA regulations with the potential for substantial fines and penalties. Skim from surface.

Continues on page 3

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company
A Division of Exxon Mobil Corporation

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Recover the spilled material and place in suitable containers for recycle or disposal.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:
Yes, use proper bonding and/or grounding procedure.

STORAGE TEMPERATURE, °F:
Ambient

LOAD I NG/UNLOADI NG TEMPERATURE, °F:
Ambient

STORAGE/TRANSPORT PRESSURE, mmHg:
Atmospheric

LOADING/UNLOADING VISCOSITY, CSt:
Solid

STORAGE AND HANDLING:
Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials.
Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.
Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS
Local exhaust ventilation of process equipment may be needed to control particulate exposures to below the recommended exposure limit. See personal protection recommendations.

PERSONAL PROTECTION
For open systems at ambient temperature (-18 to 38 degrees C) where contact is likely, wear safety glasses with side shields. Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield.

WORKPLACE EXPOSURE GUIDELINES

OSHA REGULATION 29CFRI910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:
5 mg/m3 (respirable dust), and 15 mg/m3 (total dust) based on the OSHA PEL for nuisance dust. The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, ExxonMobil Chemical Company recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:
A TWA of 10 mg/m3 for inhalable particulate (total dust) and a TWA of 3 mg/m3 for respirable particulate (total dust) for Particulates Not Otherwise Classified (PNOC).

Continues on page 4

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company
A Division of Exxon Mobil Corporation

ExxonMobil LLDPE (ALL GRADES)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY. at °F:
0.92 - 0.970
SOLUBILITY IN WATER, wt. % at °F:
Insoluble
SP. GRAV. OF VAPOR, at I atm (Air=1):
Not applicable
EVAPORATION RATE. n-Bu Acetate=1:
Not applicable
VAPOR PRESSURE, mmHg at °F:
Not available
VISCOSITY OF LIQUID, cSt at °F:
Not applicable
FREEZING/MELTING POINT. °F:
See Notes in Section 16
BOILING POINT, *F:
Not applicable

SECTION 10 STABILITY AND REACTIVITY

STABILITY:
Stable
CONDITIONS TO AVOID INSTABILITY:
Temperatures over 650 F (343 C) will lead to resin degradation and decomposition
HAZARDOUS POLYMERIZATION:
Will not occur
CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:
Not Applicable
MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:
Fluorine Strong Oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS:
Flammable Hydrocarbons

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6, and 15 for disposal and regulatory information.

Continues on page 5

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company
A Division of Exxon Mobil Corporation

ExxonMobil LLDPE(ALL GRADES)

DATE PREPARED: SEP 6, 2000
MSDS NO.: 89001000

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):
This product is not DOT regulated.

SECTION 15 REGULATORY INFORMATION

TSCA:
This product is listed on the TSCA Inventory.
TSCA:
Components of this product are listed on the TSCA Inventory.
CERCLA:
If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.
SARA TITLE III:
Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Not Hazardous. This product does not contain Section 313 Reportable Ingredients.

SECTION 16 OTHER INFORMATION

NOTES:

Polymer CAS Numbers:
For polyethylene homopolymer grades: 9002-88-4
For ethylene/butene copolymer grades:25087-34-7
For ethylene/hexene copolymer grades:25213-02-9
Melting Point Ranges:
HOPE: 265 to 280 Deg F. (129 to 137.5 Deg C)
LLDPE: 240 to 265 Deg F. (115 to 129 Deg C)

National Fire Protection Association standards NFPA 654 and 68 indicate possible explosion hazard of dust particles. Conform accordingly. Avoid accumulation of dust or dust clouds; operate handling and storage systems leak free, practice good housekeeping. Keep from sources of ignition. Do not store near heat, flame, or strong oxidants. Assure proper electrical grounding of all handling equipment. For more information see "Guide for Handling and Storage of ESCORENE Polyethylene Resins."

Product may also contain varying levels of additives, such as slip and antiblocking agents (talc or silica), antioxidants, stabilizers, and corrosion inhibitors. Certain grades may contain cristobalite, a form of crystalline silica, as an additive that is encapsulated in the polymer. Inhaled crystalline silica in an occupational environment has been classified as a Group I human carcinogen by the International Agency for

Continues on page 6

Research on Cancer. However, ExxonMobil Chemical Company has assessed the potential for release of silica to the air when this polymer is handled and has determined that silica encapsulated in this polymer is not expected to pose a health hazard when processed under normal conditions of use.

SPECIAL PRECAUTIONS:
Should significant vapors/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products which may evolve at elevated temperatures (for example, formaldehyde and acrolein). Processors of this product should assure that adequate ventilation or other controls are used to control exposure.

It is recommended that the current ACGIH-TLVs for thermal degradation by-products be observed. Contact your ExxonMobil Representative for further information.

Representative Paxon HDPE grades may include:

EA55-003	EA60-007	EE60-007	FDGO-018
FE60-018	4261A Q450	4700	AA45-004
AA55-003	AA60-003	AB40-003	AB50-003
AB55-003	AC40-003	AD60-007	AF50-003
AF60-007	AG45-004	AK53-004	AL55-003
AM55-003	AS55-003	AT55-003	AU55-003
BA46-055	BA50-100	BA50-120	BA53-035
BA53-058	BC50-100		
AX40-003	AX50-003	AX50-200	AX55-003
AX60-007	BX50-100	BX53-035	BX53-058

HAZARD RATING SYSTEMS:
This information is for people trained in:
National Paint & Coatings Association's (NPCA)
Hazardous Materials Identification System (HMIS)
National Fire Protection Association (NFPA 704)
Identification of the Fire Hazards of Materials

	NPCA-HMIS	NFPA 704	KEY
HEALTH	1	1	4 = Severe
FLAMMABILITY	1	1	3 = Serious
REACTIVITY	0	0	2 = Moderate
			1 = Slight
			0 = Minimal

CAUTION: HMIS ratings are based on a 0-4 rating scale with I representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

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ExxonMobil
Chemical

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

A Division of Exxon Mobil Corporation

ExxonMobil LLDPE(ALL GRADES)

DATE PREPARED: SEP 6, 2000
MSDS NO.: 89001000

REFERENCE NUNBER:
HDHA-K-20313

SUPERSEDES ISSUE DATE:

LAST PAGE

Honeywell

Material Safety Data Sheet

A-C® Polypropylene Polymers

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: A-C 1089, 1172

OTHER/GENERIC NAMES: Polypropylene Polymers

PRODUCT USE: Additive for coatings and plastics.

MANUFACTURER: Honeywell International
Specialty Wax and Additives
101 Columbia Rd., P.O. Box 1053
Morristown, NJ 07962-1053

FOR MORE INFORMATION CALL:
(Monday-Friday, 9:00am-4:30pm)
973-455-4414

IN CASE OF EMERGENCY CALL:
(24 Hours/Day, 7 Days/Week)
800-424-9300 (CHEMTREC)
973-455-2000

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS #	WEIGHT %
Ethylene-propylene copolymer	9010-79-1	~ 100

Trace impurities and additional material names not listed above may also appear in the Regulatory Information section (#15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Products are white solids in powder form. Powdered material in air may form an explosive mixture. No other significant immediate health, physical, or environmental hazards are associated with these materials.

POTENTIAL HEALTH HAZARDS:

SKIN: Molten material will cause thermal burns.

EYES: Particulates may cause mechanical irritation.

INHALATION: Treat powder as nuisance particulates. Fumes from molten material may be irritating.

INGESTION: No effects known. Low toxicity.

DELAYED EFFECTS: None known.

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

Ingredient Name	NTP Status	IARC Status	OSHA List
* No ingredients listed in this section *			

4. FIRST AID MEASURES

SKIN: Wash with water and soap.

EYE: Wash with water for 15 minutes. If irritation persists, consult physician.

INHALATION: For inhalation of powder, remove to fresh air.

INGESTION: Not expected to occur.

ADVICE TO PHYSICIAN: No specific advice. Treat according to symptoms present.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	> 390°F (> 200°C)
FLASH POINT METHOD:	Open cup.
AUTOIGNITION TEMPERATURE:	None known.
UPPER FLAME LIMIT (Volume % in air):	Not applicable.
LOWER FLAME LIMIT (Volume % in air):	Not applicable.
FLAME PROPAGATION RATE (Solids):	Unknown.
OSHA FLAMMABILITY CLASS:	Not applicable.

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical or fine water spray. Avoid water stream on molten burning material as it may scatter and spread the fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Melts in proximity to fires causing slipery floors and stairs. Static charges on powders or powders in liquids may ignite combustible atmospheres. See NFPA Bulletin 654, "Prevention of Fires and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries" for safe handling procedures.

SPECIAL FIREFIGHTING PRECAUTIONS/INSTRUCTIONS:

Wear self-contained breathing apparatus approved by NIOSH. Watch footing on floors and stairs because of possible melting and spreading of material. Use water spray to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASES: (Always wear recommended personal protective equipment.)
Remove ignition sources from the powdered grades. Keep away from heat or flame. Sweep up with a minimum of dusting. Collect in container, e.g. fiberboard drum or carton.

Spills and releases may have to be reported to Federal and/or local authorities. See the Regulatory Information section (#15) regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING: (Always wear recommended personal protective equipment.)
Avoid breathing fumes from heating operations. Avoid spillage which can cause very slippery conditions on floors. Use good personal hygiene and housekeeping.

STORAGE RECOMMENDATIONS:
Avoid excessive heat. Do not store near strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Use adequate ventilation during heating processes, or if dusty conditions prevail when handling powdered materials. For storage and ordinary handling, general ventilation is adequate.

PERSONAL PROTECTIVE EQUIPMENT:

SKIN PROTECTION:
Protective garments, i.e. gloves with long sleeves, when handling molten material.

EYE PROTECTION:
Chemical goggles around molten material and in dusty conditions.

RESPIRATORY PROTECTION:
Use a NIOSH approved dust respirator with powdered grades if dusty conditions prevail.
During melting or conveying in molten state, use an organic vapor respirator.

ADDITIONAL RECOMMENDATIONS:
Not generally required.

EXPOSURE GUIDELINES: (Guidelines exist for the following ingredients)

Ingredient Name	ACGIH TLV	OSHA PEL	Other Limit
* No ingredients listed in this section *			

* = Limit established by Honeywell International Inc.
** = Workplace Environmental Exposure Level (AIHA)
*** = Biological Exposure Index

Other exposure limits for the decomposition products normally associated with product use are as follows:

Powdered forms may generate nuisance particulates upon handling: ACGIH TLV = 10 mg/m3 of total particulates.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White powder
PHYSICAL STATE: Solid.
ODOR: Characteristic waxy odor.
SPECIFIC GRAVITY: (Water = 1.0) 0.90 – 0.91
SOLUBILITY IN WATER: (Weight %) Negligible
pH: Not applicable.
BOILING POINT: Not applicable.
MELTING POINT: 145 - 152°C (293 – 305°F); drop point
VAPOR PRESSURE: Not applicable.
VAPOR DENSITY: (Air = 1.0) Not applicable.
EVAPORATION RATE: Not applicable. Compared to: Not applicable.
% VOLATILES: Not applicable.
FLASH POINT: > 390°F (> 200°C)
(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (Conditions to Avoid)
Stable at normal conditions.

INCOMPATIBILITIES:
Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:
Depending on conditions of fire, CO, CO2, and combustible gases may be generated.

HAZARDOUS POLYMERIZATION?
Will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:
Not determined.

DELAYED (SUBCHRONIC & CHRONIC) EFFECTS:
Not determined.

OTHER DATA:
No other data developed.

12. ECOLOGICAL INFORMATION

No data have been developed on this subject. These polymeric products are not soluble in water. They are not considered biodegradable.

13. DISPOSAL CONSIDERATIONS

RCRA:
Is the unused product a RCRA hazardous waste if discarded? No.
If yes, the RCRA ID number is:

OTHER DISPOSAL CONSIDERATIONS: Discard as non-hazardous organic solid waste.

The information offered here is for the product as shipped. Use and/or alteration to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not regulated.

US DOT ID NUMBER: Not applicable.

For additional information on shipping regulations affecting this material, contact the information number found on the first page.

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA):
TSCA INVENTORY STATUS: Products are listed on the TSCA Chemical Inventory.

OTHER TSCA ISSUES: None.

SARA TITLE III/CERCLA:

RQs & TPQs

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

Ingredient	SARA/CERCLA RQ (lbs)	SARA EHS TPQ (lbs)
* No ingredients listed in this section *		

Spills/releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (1-800-424-8802) and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: None

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals". CAS #'s and wt. % are found in section #2.

Ingredient	Comment
* No ingredients listed in this section *	

STATE RIGHT TO KNOW:

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes:

Ingredient	Wt.%	Comment
* No ingredients listed in this section *		

ADDITIONAL REGULATORY INFORMATION:

None.

WHMIS CLASSIFICATION (CANADA):

Not subject to WHMIS regulations.

FOREIGN INVENTORY STATUS:

Canadian DSL (Domestic Substances List)
EINECS (European Inventory of Existing Commercial Chemical Substances)
Australian Chemical Inventory
Japanese Chemical Inventory
Korean Inventory (ENCS)
Philippine Inventory (PICCS)

16. OTHER INFORMATION

CURRENT ISSUE DATE: 2/2000
PREVIOUS ISSUE DATE: 1/99

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:
Changed from AlliedSignal logo to Honeywell logo

Material Safety Data Sheet

A-C® Polypropylene Polymers

OTHER INFORMATION: None