

EASTMAN

MATERIAL SAFETY DATA SHEET

Revision Date: 04/27/2006

MSDSUSA/ANSI/EN/150000015384/Version 5.0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|----------------------------------|--|
| Product Name | Eastman(TM) G-3015 Polymer |
| Product Identification Number(s) | G-3015, P2012707, P2012700, P2012702, P2012703, P2012705, E2012701, P2012706, P2012708, P2012709 |
| Manufacturer/Supplier | Eastman Chemical Company 200 South Wilcox Drive Kingsport, TN 37660-5280 US +14232292000 |
| MSDS Prepared by | Eastman Product Safety and Health |
| Chemical Name | not applicable |
| Synonym(s) | 20127-00 973675 |
| Molecular Formula | not applicable |
| Molecular Weight | not applicable |
| Product Use | plastic |
| OSHA Status | hazardous |

For emergency health, safety & environmental information, call 800-EASTMAN.

For emergency transportation information, call CHEMTREC at 800-424-9300 or call 800-EASTMAN.

2. COMPOSITION INFORMATION ON INGREDIENTS

(Typical composition is given, and it may vary. A certificate of analysis can be provided, if available.)

| Weight % | Component | CAS Registry No. |
|----------|------------------------|------------------|
| >99% | maleated polypropylene | 25722-45-6 |
| <1% | maleic anhydride | 108-31-6 |

3. HAZARDS IDENTIFICATION

WARNING!

AT ELEVATED TEMPERATURES, VAPOR MAY CAUSE ALLERGIC RESPIRATORY REACTION
AT ELEVATED TEMPERATURES, VAPOR MAY CAUSE IRRITATION OF EYES AND
RESPIRATORY TRACT
MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS

HMIS® Hazard Ratings: Health - 2, Flammability -1, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

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MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron, Ohio 44305

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oxygen. Get medical attention immediately.

Eyes: If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.

Skin: If burned by contact with molten material, cool as quickly as possible. Do not peel material from skin. Get medical attention.

Ingestion: Seek medical advice. Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.

Note to Physicians: Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

5. FIRE FIGHTING MEASURES

Extinguishing Media: water spray, dry chemical, carbon dioxide

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Sweep up and place in a clearly labeled container for chemical waste.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Do not breathe vapor from heated material. Avoid contact with molten material. Use only with adequate ventilation.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials. Minimize dust generation and accumulation. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable unless listed below.

MALEIC ANHYDRIDE

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 0.1 ppm,

US. NIOSH: Pocket Guide to Chemical Hazards

Recommended exposure limit (REL): 0.25 ppm, 1 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 0.25 ppm, 1 mg/m³

MALEIC ANHYDRIDE; CIS-BUTENEDIOIC ANHYDRIDE

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

Time Weighted Average (TWA) Permissible Exposure Limit (PEL): 0.25 ppm, 1 mg/m³

MALEIC ANHYDRIDE

US. OSHA Table Z-1-A (29 CFR 1910.1000)

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Time Weighted Average (TWA): 0.25 ppm, 1 mg/m³

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: full-face positive-pressure air-supplied

Eye Protection: Wear a face shield when working with molten material. Wear a full-face respirator, if needed.

Skin Protection: When material is heated, wear gloves to protect against thermal burns.

Recommended Decontamination Facilities: eye bath, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: solid (pellet)

Color: varies with formulation

Odor: slight

Odor Threshold for (maleic anhydride): 0.32 ppm

Specific Gravity: < 1 (25 °C)

Softening Point: 150 - 170 °C

Solubility in Water: negligible

Flash Point: not applicable, combustible solid

Thermal Decomposition Temperature: (DSC) No exotherm to 450°C

10. STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility: Material reacts with strong oxidizing agents.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.

Data for this material or a very similar material

| | |
|----------------------------------|-------------------------------------|
| Oral LD-50:(rat) | >2,000 mg/kg(highest dose tested) |
| Dermal LD-50: (rat) | > 2,000 mg/kg (highest dose tested) |
| Skin Irritation (rabbit) | none |
| Eye Irritation (rabbit) | slight(lowest dose tested) |
| Eye Irritation (rabbit) | moderate(highest dose tested) |
| Skin Sensitization: (guinea pig) | none |

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12. ECOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.

Acute Aquatic Effects Data:

96 h LC-50 (fathead minnow): > 100 mg/l (highest concentration tested)

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT (USA)

Class not regulated

Sea - IMDG (International Maritime Dangerous Goods)

Class not regulated

Air - ICAO (International Civil Aviation Organization)

Class not regulated

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada) Status: controlled

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WHMIS (Canada) Hazard Classification: D/2/A

SARA 311-312 Hazard Classification(s):
immediate (acute) health hazard

SARA 313: none, unless listed below

Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.

EINECS (European Inventory of Existing Commercial Chemical Substances): All components of this product are listed on EINECS. Any polymer present in this product has regulatory clearance under Directives of the European Union.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

Phillipines Inventory (PICCS) : This product is listed on the Phillipine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

16. OTHER INFORMATION

Visit our website at www.EASTMAN.com or call 001-423-229-2000.

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment.

Highlighted areas indicate new or changed information.