

MATERIAL SAFETY DATA SHEET



Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Alathon M6010SB, BULK
 CAS Number: 9002-88-4
 Material number : 00000000000014624
 Chemical characterization : Polyethylene Homopolymer
 Chemical Name : Polyethylene Homopolymer
 Synonyms : Polyethylene, Polyethylene Homopolymer, PE
 Product Use Description : Molded plastic applications.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

This material is NOT HAZARDOUS by OSHA Hazard Communication definition.

CAUTION.

Physical state : solid
 Color : translucent to white
 Odor : Faint, mild hydrocarbon odor.
 Hazard Summary : Dust may form explosive mixtures with air.
 At process temperatures irritating fumes may be produced.
 Molten polymer may cause thermal burns.
 Slipping hazard if spilled on hard smooth walking surface.
 The material can accumulate static charge and can therefore cause electrical ignition.

Potential Health Effects

Primary Routes of Entry : Eye.
 Inhalation.

MATERIAL SAFETY DATA SHEET



Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

Skin.

Aggravated Medical Condition : No known conditions are aggravated by this material.

Inhalation : Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. "Nuisance dust" such as polymer dust typically exhibit no significant health effect when they are reasonably controlled. Exposure to high concentrations of dust may cause slight irritation by mechanical action.

Skin : Molten polymer may cause thermal burns.

Eyes : Mechanical irritation is possible.

Ingestion : Ingestion not a likely route of exposure.

Chronic Exposure : No known chronic health effects.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Component	CAS-No.	Weight %
Polyethylene, Homopolymer	9002-88-4	>= 99.0 < 100.0%
Additives	Mixture	>= 0.1 < 1.0%

SECTION 4. FIRST AID MEASURES

First aid procedures

General advice : Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 2 of this MSDS.

If inhaled : If symptoms are experienced, move victim to fresh air. Remove person to fresh air. If signs/symptoms continue, get medical attention.

In case of skin contact : If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Obtain emergency medical attention.

In case of eye contact : Flush eyes thoroughly with water for several minutes and seek

MATERIAL SAFETY DATA SHEET



Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

medical attention if discomfort persists.

If swallowed : Adverse health effects due to ingestion are not anticipated.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : Remarks: Not applicable.

Autoignition temperature : > 572 °F (> 300 °C)

Lower explosion limit : Remarks: Not applicable.

Upper explosion limit : Remarks: Not applicable.

Fire fighting

Suitable extinguishing media : SMALL FIRE:
Use DRY chemicals, CO2, water spray
LARGE FIRES: Use large quantities of water spray.

Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Polyolefin dust particles in the atmosphere are combustible and may be explosive.
Avoid sparks, heat, and open flame.

Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods for containment / Methods for cleaning up : Avoid generating dust.
Potential dust explosion hazard.
Use only non-sparking tools.
Material creates dangerous slipping hazard on hard surfaces.
Pick up and retain for recycle or disposal.

Additional advice : See Section 15: Regulatory Information.

SECTION 7. HANDLING AND STORAGE

Handling

Advice on safe handling : Keep away from heat and sources of ignition.
Electrostatic charge may build up during handling. Equipment should be grounded and bonded.
Containers must be properly grounded before beginning transfer.
Use with adequate ventilation.

MATERIAL SAFETY DATA SHEET



Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

Spilled material can make walking hazardous, potentially causing falls and serious injury.
After handling, always wash hands thoroughly with soap and water.

Storage

Requirements for storage areas and containers : Keep container dry.
Store away from excessive heat and away from strong oxidizing agents.
Keep container closed to prevent contamination.
Take measures to prevent the build up of electrostatic charge.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Consult local authorities for acceptable exposure limits.

Engineering measures

Engineering measures : Ventillate area to prevent accumulation of dust and fumes.

Personal protective equipment

Eye protection : Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.

Hand protection : Use chemical resistant gloves appropriate to conditions of use.
Wear heat protective gloves and clothing if there is a potential for contact with heated material.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Use appropriate respiratory protection where atmosphere exceeds recommended limits.

Hygiene measures : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.
Use good personal hygiene practices.
Wash hands before eating, drinking, smoking, or using toilet

MATERIAL SAFETY DATA SHEET


Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

facilities.

Take off contaminated clothing and wash before reuse.

Material spilled on hard surface can be a serious slipping/falling hazard.

Use care in walking on spilled material.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Physical state	: solid
Color	: translucent to white
Odor	: Faint, mild hydrocarbon odor.

Safety data

Flash point	: Note: Not applicable.
Lower explosion limit	: Note: Not applicable.
Upper explosion limit	: Note: Not applicable.
Oxidizing properties	: No Data Available.
Autoignition temperature	: > 572 °F (> 300 °C)
pH	: Note: Not applicable.
Freezing point	: 219 - 280 °F (104 - 138 °C)
Boiling point	: Note: Not applicable.
Vapor pressure	: Note: Not applicable.
Density	: < 1 g/cm ³
Water solubility	: Note: Insoluble.
Partition coefficient: n-octanol/water	: Note: No Data Available.
Viscosity, dynamic	: Note: Not applicable.
Relative vapor density	: Note: Not applicable.
Remarks - Other information	: No additional information available.

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or
---------------------	--

MATERIAL SAFETY DATA SHEET



Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

- open flame.
- Materials to avoid : Material may be softened by some hydrocarbons.
- Hazardous decomposition products : Not expected to decompose under normal conditions.
- Thermal decomposition : Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.
- Hazardous reactions : Will not occur.
The product is stable.

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity** :
Remarks: No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.
- Acute inhalation toxicity** : Remarks: Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs.
Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats.
- Skin irritation** : Remarks: No adverse effects are expected.
- Eye irritation** : Remarks: Mechanical irritation is possible.
- Repeated dose toxicity** : Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.
- Toxicology Assessment**
- CMR effects** : **Carcinogenicity:**
Not listed by IARC, NTP, OSHA or EPA.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

MATERIAL SAFETY DATA SHEET



Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

Bioaccumulation : Remarks:
This material is not expected to bioaccumulate.

Additional advice : Remarks:
Environmental fate and pathways This material is not volatile and insoluble in water.

Biodegradability : Remarks:
This material is expected to be resistant to biodegradation.

Further information on ecology

Additional ecological information : No additional information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Recycle if possible.
All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

SECTION 14. TRANSPORT INFORMATION

Proper shipping name POLYETHYLENE, OTHER THAN LIQUID, not regulated

SECTION 15. REGULATORY INFORMATION

Notification status

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	ELINCS
Japan	ENCS/ISHL
Korea	ECL
United States of America	TSCA
New Zealand	NZIoC

SARA 302/304

This product contains no known chemicals regulated under SARA 302/304.

MATERIAL SAFETY DATA SHEET



Alathon M6010SB

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

SARA 311/312

Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

SARA 313

This product contains no known chemicals regulated under SARA 313.

State Reporting

This product contains no known chemicals regulated by California's Proposition 65.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

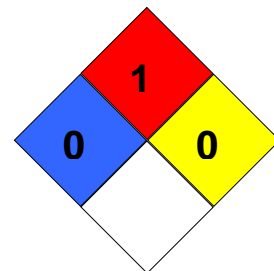
This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health Hazard: 0
 Flammability: 1
 Reactivity: 0

NFPA Classification : Health Hazard: 0
 Fire Hazard: 1
 Reactivity Hazard: 0



Material safety datasheet sections which have been updated:

First Edition June 6 2012

Disclaimer

CAUTION DO NOT USE EQUICSTAR CHEMICALS, LP MATERIALS IN APPLICATIONS INVOLVING IMPLANTATION WITHIN THE BODY; DIRECT OR INDIRECT CONTACT WITH THE BLOOD PATHWAY; CONTACT WITH BONE, TISSUE, TISSUE FLUID, OR BLOOD; OR PROLONGED CONTACT

MATERIAL SAFETY DATA SHEET

lyondellbasell
| | | |**Alathon M6010SB**

Gen. Variant: SDS_US

Version 1.0

Revision Date 06/08/2012

Print Date 01/05/2015

MSDS No.: BE1367

Disclaimer

WITH MUCOUS MEMBRANES. EQUISTAR CHEMICALS, LP MATERIALS ARE NOT DESIGNED OR MANUFACTURED FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES. EQUISTAR CHEMICALS, LP WILL NOT PROVIDE TO CUSTOMERS MAKING DEVICES FOR SUCH APPLICATIONS ANY NOTICE, CERTIFICATION OR INFORMATION NECESSARY FOR SUCH MEDICAL DEVICE USE REQUIRED BY FDA REGULATION OR ANY OTHER STATUTE. EQUISTAR CHEMICALS, LP MAKES NO REPRESENTATION, PROMISE, EXPRESS WARRANTY OR IMPLIED WARRANTY CONCERNING THE SUITABILITY OF THESE MATERIALS FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY TISSUES OR FLUIDS.

Information is correct to the best of our knowledge at the date of the MSDS publication.

The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Adflex, Adstif, Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Aquathene, Avant, Catalloy, Clyrell, Dexflex, Flexathene, Hifax, Histif, Hostacom, Hostalen, Indure, Integrate, Koattro, Lucalen, Luflexen, Lupolen, Metocene, Microthene, Moplen, Nexprene, Petrothene, Plexar, Pristene, Pro-Fax, Purell, Sequel, Softell, Starflex, Ultrathene, and Valtec are trademarks owned or used by the LyondellBasell family of companies.

Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Avant, Dexflex, Flexathene, Hifax, Hostacom, Hostalen, Integrate, Koattro, Lucalen, Lupolen, Microthene, Moplen, Nexprene, Petrothene, Plexar, Pristene, Pro-Fax, Purell, Sequel, Softell, Starflex, and Ultrathene are registered in the U.S. Patent and Trademark Office.

Language Translations

This document may be available in languages other than English.