

SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** Lydair SC 5190
Manniweb 5160, 5174, 5190, 5164, 5174, 5104, 5104-1, 5124 Black.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:** Insulation media
- 1.3 Details of the supplier of the safety data sheet**
Name: Alkegen
Address: 68 George Street
Green Island, NY USA 12183
Telephone number: 1-800-441-2466 or 1-518-273-6320
- 1.4 Emergency Telephone Number:** CHEMTREC: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

MOST IMPORTANT HAZARD: The product does not present any hazard for final use.

OSHA/GHS Classification: Not classified as hazardous

2.2 Label Elements: None

2.3 Other Hazards: Product dust may be irritating to eyes, skin and respiratory system.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Substance name	Contents	CAS No.	EINECS No.	Classification
Polyester	30-90	25038-59-9	None	Not classified as dangerous
Hydrocarbon polymer	5-35	Proprietary	Proprietary	Not classified as dangerous
Chopped, continuous strand fiberglass (> 5 microns in diameter)	0-30	65997-17-3	266-046-0	Not classified as dangerous
Cellulose	0-25	65996-61-4	265-995-8	Not classified as dangerous
Carbon Black*	0-5	1333-86-4	215-609-9	Carc.2 H351

*Carbon Black is only present in product grade 5124 Black. Carbon black is inextricably bound within the polymer matrix and no exposure will occur.

See Section 16 for full text of GHS Classifications.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact:	Do not rub your eyes. Dust particles may cause abrasive eye injury. Flush eyes with water, holding the eyelids apart for several minutes. Get medical attention if irritation persists.
Skin contact:	Do not rub or scratch. Rinse exposed skin with cold water then wash skin with soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.
Inhalation:	Remove victim to fresh air. Drink water to clear throat and blow nose to remove dust. Get medical attention if irritation persists.
Ingestion:	If small quantities are swallowed, rinse out mouth with water. Drink plenty of water to help reduce irritation. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: May cause eye irritation. May cause mild skin and respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed: No immediate treatment is normally required.

See Section 11 for more detailed information on health effects.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:	Use water, water fog, carbon dioxide, foam or dry chemical.
5.2 Special Hazards Arising from the Substance or Mixture:	This product is a combustible material and will burn under fire conditions. Combustion may generate oxides of carbon and nitrogen; and hydrocarbons.
5.3 Advice for Fire-Fighters:	Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus for all fires involving chemical products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:	Wear appropriate protective clothing and equipment (see section 8). Avoid contact with skin, eyes or clothing. Do not breathe dust.
6.2 Environmental Precautions:	Avoid release to the environment.
6.3 Methods and Material for Containment and Cleaning Up:	Pick up material and place into a container for disposal.
6.4 Reference to Other Sections:	Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for Safe Handling

Avoid contact with eyes, skin and clothing. Avoid creating and breathing dusts. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Do not eat, drink or smoke when using this material. Launder contaminated clothing before re-use. Wash thoroughly with soap and water after handling. Minimize the generation and accumulation of dust.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in a dry, well-ventilated area.

7.3 Specific end use(s):

Thermal and acoustical insulation media

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Polyester (as particulates not otherwise classified)	5 mg/m ³ (Respirable) 15 mg/m ³ (total dust) TWA OSHA PEL
Hydrocarbon polymer (as particulates not otherwise classified)	5 mg/m ³ (Respirable) 15 mg/m ³ (total dust) TWA OSHA PEL
Fibrous glass, continuous filament (>3.5 microns in diameter)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust) TWA OSHA PEL, 1 f/cc TWA OSHA HSPP*
Cellulose	10 mg/m ³ TWA ACGIH TLV 5 mg/m ³ (respirable); 15 mg/m ³ (total dust) TWA OSHA PEL
Carbon Black**	3 mg/m ³ TWA ACGIH TLV (inhalable) 3.5 mg/m ³ TWA OSHA PEL

* HSPP = OSHA voluntary Health and Safety Partnership Program

**Carbon Black is only present in product grade 5124 Black. Carbon black is inextricably bound within the polymer matrix and no exposure will occur.

8.2 Exposure Controls:

-Engineering Measures:

Use with adequate local exhaust ventilation to minimize exposures. Provide local exhaust ventilation where product is cut or processed in a manner that generates dust.

- Respiratory Protection:

If the occupational exposure limits are exceeded or irritation is experienced, wear an approved particulate respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use in accordance with all applicable regulations (in the US follow OSHA 1910.134) and good Industrial Hygiene practice.

- Hand Protection:

Wear protective gloves to minimize skin contact. Barrier creams may be useful in reducing irritation.

- Eye/face Protection:

Wear safety glasses with side shields or dust proof goggles.

- Other Protective Clothing or Equipment:

Clothing with long sleeves and pants should be worn to avoid skin contact. Washing facilities should be available in the work area.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Physical State:	Solid. Fibrous non-woven fabric
Color:	White or black;
Odor:	Odorless.
Odor Threshold:	Not applicable
pH:	Not applicable
Melting/Freezing Point:	500- 1200°F (260- 648.9°C)
Boiling Point:	Not applicable
Flash Point:	550°F (287.8°C)
Flammability:	Not flammable
Relative Density:	No data available
Evaporation Rate:	Not applicable
(n-butylacetate =1)	
% Volatile by Volume:	0%
Lower Flammability Limit:	Not determined
Upper Flammability Limit:	Not determined
Vapor Pressure:	Not applicable
Relative Vapor Density (Air=1):	Not applicable
Solubility:	Insoluble
Autoignition Temperature:	Not applicable
Decomposition Temperature:	Not determined
Kinematic Viscosity:	Not applicable
Partition Coefficient n-octanol/water:	No data available
Explosive Properties:	No data available
Oxidizing Properties:	Not applicable
Specific Gravity (H₂O= 1):	0.20
Molecular Formula:	Not determined
Molecular Weight:	Not determined
Particle Characteristics:	No data available

9.2 Other Information: None.

SECTION 10: STABILITY and REACTIVITY

- 10.1 Reactivity:** This material is not reactive under normal conditions.
- 10.2 Chemical Stability:** Stable
- 10.3 Possibility of Hazardous Reactions:** Will not occur.
- 10.4 Conditions to Avoid:** Avoid dust formation.
- 10.5 Incompatible Materials:** Avoid strong oxidizing agents; strong acids and strong bases.
- 10.6 Hazardous Decomposition Products:** No decomposition expected if stored and applied as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects: Potential Health Effects:

- Eye Contact:** Dust may cause mechanical irritation and possible injury.
- Skin contact:** Dust may cause mechanical irritation.
- Inhalation:** Dust may cause nose, throat and upper respiratory tract irritation. Symptoms include coughing sneezing and scratchy throat.
- Ingestion:** May cause irritation of the mouth and intestinal tract.
- Acute toxicity:** No specific data is available

Skin corrosion/irritation: Not a skin corrosive.
Eye damage/ irritation: Dust may cause mechanical irritation and possible injury.
Respiratory Sensitization: Not a respiratory sensitizer.
Skin Sensitization: Not a skin sensitizer.
Germ Cell Mutagenicity: Not classified a germ cell mutagen.
Carcinogenicity: Continuous filament fiberglass is not classified as a carcinogen by OSHA, IARC, NTP, or ACGIH. Carbon Black is listed by IARC as "Possibly Carcinogenic to Humans", Group 2B. Carbon Black in this material is inextricably bound within the polymer matrix and no exposure will occur. None of the other components are classified as a carcinogen by IARC, NTP, ACGIH, or OSHA.
Reproductive Toxicity: No effects on reproduction are expected.
Specific Target Organ Toxicity: Single Exposure: No data available.
Repeat Exposure: No data available.
Aspiration Toxicity: Not an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available.

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative Potential:

No data available.

12.4 Mobility in Soil:

No data available.

12.5 Results of PVT and vPvB assessment:

Not required.

12.6 Other Adverse Effects:

None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with local, state and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	N/A	Not classified for transport	N/A	N/A	N/A
Canadian TDG	N/A	Not classified for transport	N/A	N/A	N/A
IMDG	N/A	Not classified for transport	N/A	N/A	N/A
IATA/ICAO	N/A	Not classified for transport	N/A	N/A	N/A

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to IMO Instruments: Not applicable – product not shipped in bulk.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

U.S. REGULATIONS:

CERCLA: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Classified as per Section 2 of this SDS.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements, Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

U.S. STATE REGULATIONS

California Proposition 65: This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects): Carbon black @ < 5% (Cancer), Formaldehyde @ <0.0196% (Cancer); And trace amounts of 1,3-butadiene (Cancer, Male and female reproductive, Developmental); 4-Vinylcyclohexene (Cancer, Male and female reproductive); Ethyl benzene (Cancer)

INTERNATIONAL REGULATIONS:

REACH: This product is an article and not subject to registration.

RoHS (Restriction on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations): This product is RoHS compliant.

INTERNATIONAL INVENTORIES

US Toxic Substances Control Act Inventory (TSCA): This product is an article and not subject to TSCA.

Australian Inventory of Chemical Substances: This product is an article and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances: This product is an article and not subject to chemical notification requirements.

Japanese Existing and New Chemical Substances: This product is an article and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is an article and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances: This product is an article and not subject to chemical notification requirements.

Canadian CEPA New Chemical Notification: This product is an article and not subject to new chemical notification.

New Zealand: This product is an article and not subject to new chemical notification.

SECTION 16: OTHER INFORMATION

Combustible Dust:

Based on the foreseeable and intended use of this product, generation of appreciable levels of combustible dust is unlikely. Where a workplace assessment indicates there is a potential for a combustible dust hazard: Dust generated in cutting or other processing of this material may present a potential fire and explosion hazard if suspended in air at high concentrations. Settled dust presents a fire hazard. Re-suspension of the dust into the air by vibration, traffic, material handling, etc. in high concentrations in the presence of an ignition source could result in a dust explosion. Minimize the generation and accumulation of dust.

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DEFINITIONS/ ABBREVIATIONS

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: Carriage of Dangerous Goods by Road (International Regulation)
CAA: Clean Air Act
CAS: Chemical Abstracts Service
CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
DSL: Domestic Substances List
EPA: Environmental Protection Agency
EU: European Union
f/cc: Fibers per cubic centimeter
HEPA: High Efficiency Particulate Air
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code
mg/m³: Milligrams per cubic meter of air
mmpcf: Million particles per cubic meter
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
29 CFR 1910.134 & 1926.103: OSHA Respiratory Protection Standards
29 CFR 1910.1200 & 1926.59: OSHA Hazard Communication Standards
PEL: Permissible Exposure Limit (OSHA)
PIN: Product Identification Number
PNOC: Particulates Not Otherwise Classified
PNOR: Particulates Not Otherwise Regulated
PSP: Product Stewardship Program
RCRA: Resource Conservation and Recovery Act
REL: Recommended Exposure Limit (NIOSH)
RID: Carriage of Dangerous Goods by Rail (International Regulations)
SARA: Superfund Amendments and Reauthorization Act
SARA Title III: Emergency Planning and Community Right to Know Act
SARA Section 302: Extremely Hazardous Substances
SARA Section 304: Emergency Release
SARA Section 311: MSDS/List of Chemicals and Hazardous Inventory
SARA Section 312: Emergency and Hazardous Inventory
SARA Section 313: Toxic Chemicals and Release Reporting
STEL: Short Term Exposure Limit
SVF: Synthetic Vitreous Fiber
TDG: Transportation of Dangerous Goods
TLV: Threshold Limit Value (ACGIH)
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average

Disclaimer:

The information presented on this SDS (1) provides details on material identity, manufacturer/supplier information, hazard characterization and prevention, emergency response and other specialized information, (2) is considered to be accurate to the best of our knowledge, information and good faith belief as of the date of publication, (3) is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release of the material named, (4) should be read and used in conjunction with the company's relevant literature, (5) relates only to the specific material designated and may not be valid for such material used in combination with any other material or process and (6) is provided without warranty, expressed or implied, in law or in fact, of merchantability or fitness for a particular purpose. This document does not constitute a product specification and should not be relied on as such. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product.