

# Negative Expander All Series

## Safety Data Sheet

In accordance with the SDS requirements of the National Standard of the People's Republic of China: General Rule for Classification and Hazard Communication of Chemicals GB 13690-2009 and Safety Data Sheet for Chemical Products Content and Order of Sections GB/T 16483-2008

Revision date: 2013/11/21

Version: 1.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Negative Expander All Series

### 1.2. Intended Use of the Product

**Recommended uses and restrictions:** Lead/acid battery negative plates, For professional use only.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Atomized Products Group, Inc

3838 Miller Park Dr

Garland, TX 75042

T 972-272-9596

[atomizedproductsgroup.com](http://atomizedproductsgroup.com)

#### Department name

### 1.4. Emergency Telephone Number

**Emergency Number:** 800-255-3924 (CHEMTEL)

813-248-0585 (CHEMTEL)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS classification (UN)

##### Health hazards

Carcinogenicity, Category 1B

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

##### Hazard pictograms (GHS-UN)



##### Signal word (GHS-UN)

: Danger

##### Hazard statements (GHS-UN)

: May cause respiratory irritation (H335)

May cause cancer (H350)

##### Prevention precautionary statements

: Obtain special instructions before use (P201)

Do not handle until all safety precautions have been read and understood (P202)

Avoid breathing vapors, mist, spray (P261)

Use only outdoors or in a well-ventilated area (P271)

Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection (P280)

##### Response Precautionary Statements

: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing (P304+P340)

If exposed or concerned, get medical advice and attention (P308+P313)

Call a doctor if you feel unwell (P312)

##### Disposal precautionary statements

: Dispose of contents/container according to local, regional, national, and international regulations (P501)

### 2.2. Other Hazards

#### Other hazards which do not result in classification

: COMBUSTIBLE DUST. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged inhalation of this material may cause benign pneumoniosis called baritosis from barium sulfate contained in this product.

**Overview expected state of emergency:** No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Mixture/Substance

**Distinction of Substance or Mixture** : Mixture

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Name	Concentration	CAS No	GHS-UN classification
Barium sulfate	24 – 88	(CAS No)7727-43-7	Not classified
Carbon black	3 – 28	(CAS No)1333-86-4	Carc. 1B, H350 STOT SE 3, H335
Sodium ligno sulfonate	4 - 88	(CAS No)8061-51-6	Not classified

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid measures after inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid measures after skin contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

**First-aid measures after eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

**First-aid measures after ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if a large amount is swallowed.

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms/Injuries:** Suspected of causing cancer.

**Symptoms/Injuries After Inhalation:** Prolonged contact with large amounts of dust may cause mechanical irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged contact with large amounts of dust may cause mechanical irritation.

**Symptoms/Injuries After Eye Contact:** Repeated or prolonged contact will cause mechanical irritation.

**Symptoms/Injuries After Ingestion:** If a large quantity has been ingested : Gastrointestinal irritation. May cause nausea, vomiting, and diarrhea.

**Personal Protection in First Aid and Measures:** Use appropriate personal protection equipment (PPE).

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

**Treatment:** If you feel unwell, seek medical advice (show the label where possible)

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Personal protection (Emergency response):** Do not enter fire area without proper protective equipment, including respiratory protection

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire hazard:** Not considered flammable but may burn at high temperatures. Dust explosion hazard in air.

### 5.3. Advice for Firefighters

**Specific fire fighting:** Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions, Protective Equipment and Emergency Procedures**

Do not breathe dust. Avoid contact with eyes, skin and clothing

### 6.2. Environmental Precautions

**Environmental precautions**

Prevent entry to sewers and public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**Methods and Equipment for Containment and Cleaning up**

Use explosion proof vacuum during cleanup, with appropriate filter, do not mix with other materials. Avoid generation of dust during clean-up of spills. Contact competent authorities after a spill.

**Prevention Measures for Secondary Accidents**

Ventilate area.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

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**Technical measures:** Handle in accordance with good industrial hygiene and safety practice. Prolonged inhalation of this material may cause benign pneumoniosis called baritosis from barium sulfate contained in this product. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion, keep dust levels to a minimum and follow applicable regulations.

**Local and general ventilation:** Ensure adequate air ventilation.

**Precautions for safe handling:** Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety procedures.

**Prevents handling of incompatible substances or mixtures:** Store away from. Strong acids, strong bases, strong oxidizers.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical measures:** Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.

**Incompatible substances or mixtures:** Refer to chapter 10.

**Storage conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, ignition sources, incompatible materials.

**Material used in packaging/containers:** No data available

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Carbon black (1333-86-4)		
China	OEL chemical category (CN)	Possibly carcinogenic to humans dust
China	OEL STEL	8 mg/m <sup>3</sup>
China	OEL TWA	4 mg/m <sup>3</sup>
China	Catalogue of Occupational Hazard Factors	Category 1 - Dusts
Barium sulfate (7727-43-7)		
China	OEL STEL	20 mg/m <sup>3</sup>
China	OEL TWA	5 mg/m <sup>3</sup>

### 8.2. Exposure Controls

**Appropriate engineering controls:** Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment:**

Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection. Protective clothing.



**Respiratory protection:** In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Hand protection:** Wear chemically resistant protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Wear suitable protective clothing.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Appearance	:	Black. Powder
Physical state	:	Solid
Odour	:	Perfume (Vanilla)

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pH	: Neutral
Melting point	: No data available
Boiling point	: No data available
Flash point	: No data available
Autoignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Evaporation rate	: No data available
Specific Gravity	: No data available
Solubility	: Insoluble in water
Log Pow	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive limits (g/m <sup>3</sup> )	: No data available
Explosive limits (vol %)	: No data available
Other properties	: No data available
Density	: No data available
Upper flammable limit	: No data available
Lower flammable limit	: No data available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.
- 10.2 Chemical stability:** Dust clouds can be explosive.
- 10.3 Possibility of hazardous reactions:** Hazardous polymerization will not occur.
- 10.4 Conditions to avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.
- 10.5 Incompatible materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6 Hazardous decomposition products:** Carbon oxides (CO, CO<sub>2</sub>). sulfur oxides. Sodium oxides. Barium oxides.
- 10.7 Other properties:** No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects - Product

General toxicity	Not classified
Toxicity hazard	Not classified
Acute toxicity (oral) - Description	Not classified
Acute toxicity (dermal) - Description	Not classified
Acute toxicity (powder) - Description	Not classified
Acute toxicity (mist) - Description	Not classified
Serious eye damage/eye irritation - Description	Not classified
Skin corrosion/irritation - Description	Not classified
Skin or Respiratory sensitization - Description	Not classified
Germ cell mutagenicity - Description	Not classified
Carcinogenicity	Suspected of causing cancer
Reproductive toxicity - Description	Not classified
Specific target organ toxicity (single exposure) - Description	May cause respiratory irritation.
Specific target organ toxicity (repeated exposure) - Description	Not classified
Aspiration hazard - Description	Not classified
Other health hazard	No data available

### 11.2 Information on Toxicological Effects Ingredient(s)

 No data available

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Ecotoxicity	:	No data available
Fish Toxicity / Other Toxicity	:	No data available
Persistence and degradability	:	No data available
Biochemical oxygen demand (BOD)	:	No data available
Chemical oxygen demand (COD)	:	No data available
ThOD	:	No data available
BOD (% of ThOD)	:	No data available
Bioaccumulative potential	:	No data available
Other information	:	Avoid release to the environment.

<b>Carbon black (1333-86-4)</b>	
LC50 Fish 1	5601 mg/l
EC50 Daphnia 1	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)

12.2. Persistence and Degradability No data available

12.3. Bioaccumulative Potential —

12.4. Mobility in Soil No data available

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Description of waste materials: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Waste treatment methods: No data available

### SECTION 14: TRANSPORT INFORMATION

#### Sea Transport (IMDG)

Class (UN)	:	No data available
Danger Labels (IMDG)	:	No data available
Packing group (UN)	:	No data available
UN-No	:	No data available
Proper Shipping Name	:	No data available
Marine pollutant	:	No data available
Special transport precautions	:	No data available

#### Air transport (ICAO/IATA)

UN-No	:	No data available
Proper Shipping Name	:	No data available
Class (UN)	:	No data available
Hazard Labels (IATA)	:	No data available
Packing group (UN)	:	No data available

#### Ground Transport

UN-No	:	No data available
Proper Shipping Name	:	No data available
Class (UN)	:	No data available
Hazard Labels (UN)	:	No data available
Packing group (UN)	:	No data available

### SECTION 15: REGULATORY INFORMATION

#### Asia/Pacific Regulations

<b>Carbon black (1333-86-4)</b>
<b>Regional legislation</b>
Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List) inventory.

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Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.  
Listed on European List of Notified Chemical Substances (ELINCS)  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on the Korean ECL (Existing Chemical List) inventory.  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on the Canadian Ingredient Disclosure List

### Barium sulfate (7727-43-7)

#### Regional legislation

Listed on the AICS (the Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List) inventory.  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.  
Listed on European List of Notified Chemical Substances (ELINCS)  
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Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Sodium ligno sulfonate (8061-51-6)

#### Regional legislation

Listed on the AICS (the Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List) inventory.  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on the Korean ECL (Existing Chemical List) inventory.  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### GHS classification (CN)

**Health hazards** : Carcinogenicity, Category 1B

## SECTION 16: OTHER INFORMATION

**Revision date** : 2013/11/21  
**Other information** : This document has been prepared in accordance with the SDS requirements of the National Standard of the People's Republic of China: General Rule for Classification and Hazard Communication of Chemicals GB 13690-2009 and Safety Data Sheet for Chemical Products Content and Order of Sections GB/T 16483-2008

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*