SECTION 1: IDENTIFICATION

Product Identifier: Dynamite
Product Names and Synonyms: Apcogel series, Extra Gelatin series, 60% Seis Gel, AL series, Red-D Gel B, Rockbuster II
Intended Use: As a commercial explosive.
Intended Users: For use only under strictly controlled conditions and only by qualified personnel who are fully trained in the handling and use of this product.

Name, Address, and Telephone of the Responsible Party:

Austin Powder Company
25800 Science Park Dr.
Cleveland, OH 44122
216-464-2400 during normal business hours
877-836-8286 Toll Free 24/7
www.austinpowder.com

In Case of Emergency Call CHEMTREC – TOLL FREE 24/7
800-424-9300 DOMESTIC
1-703-527-3887 INTERNATIONAL AND MARINE

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Code	Hazard Class	Hazard Category
H201	Explosives	Division 1.1

Label Elements

Danger

Hazard Statements

May mass explode in a fire

Precautionary Statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not subject to grinding, friction, impact or shock.
Do not breathe dust or fumes.
Do not eat, drink or smoke when using this product.
Wear eye protection, protective gloves recommended.
IF SWALLOWED: Get immediate medical attention. DO NOT induce vomiting.
IF ON SKIN: Wash contact area with soap and water. If irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse.
IF INHALED: Remove person to fresh air. Keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
If exposed or concerned, or you do not feel well: Get medical attention.
In case of fire: Extreme risk of explosion. Evacuate area. **DO NOT** fight fire when fire reaches explosives.

Store locked-up in a ventilated space, in accordance with all applicable regulations.
Dispose of contents/container in accordance with all applicable regulations.

Other Hazards:

Exposure reaction may be aggravated for those with pre-existing eye, skin, or respiratory conditions. Causes methemoglobinemia. Methemoglobinemia decreases the blood's ability to carry oxygen and results in symptoms such as dizziness, drowsiness, headache, shortness of breath, blue skin and lips, rapid heart rate, unconsciousness, and possibly death.

Unknown Acute Toxicity: Not available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name	Product Identifier	% (w/w)
Ammonium nitrate	CAS No. 6484-52-2	Note 1
Sodium nitrate	CAS No. 7631-99-4	Note 1
Ethylene dinitrate / nitroglycol	CAS No. 628-96-6	Note 1
Glycerol trinitrate / nitroglycerine	CAS No. 55-63-0	Note 1
Nitrocellulose	CAS No. 9004-70-0	Note 1
Sulfur	CAS No. 7704-34-9	Note 1

Note 1: For the listed ingredients exact percentages are being withheld as CBI (confidential business information).

SECTION 4: FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, get medical attention, show the label where possible.

Inhalation: When symptoms occur: move to open air, keep at rest and in a position comfortable for breathing. Get medical attention. Ventilate suspected area.

Skin Contact: Wash contact areas with soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Rinse mouth. DO NOT induce vomiting. Get medical attention.

Most Important Symptoms and Effects both Acute and Delayed:

Inhalation: Prolonged exposure may cause irritation to the respiratory tract, symptoms include: sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Skin Contact: May cause mild skin irritation. Symptoms may include: redness, pain, swelling, itching, burning, dryness and dermatitis. May cause a more severe irritation or allergic reaction in sensitive individuals.

Eye Contact: May cause serious eye irritation. Symptoms may include redness, pain, swelling, itching, burning, tearing and blurred vision.

Ingestion: May cause vasodilatory effect. Ammonium nitrate ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by blue lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia. If ingested, nitrates may be reduced to nitrites by bacteria in the digestive tract. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly shock.

Chronic Symptoms: Prolonged exposure may cause irritation to the respiratory tract. May cause damage to organs through prolonged or repeated exposure.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

If exposed, concerned or you don't feel well, get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

DO NOT fight fires involving Explosives. There is an extreme risk that explosives involved in a fire may detonate, especially if confined. Evacuate the area in all directions for one (1) mile or more if any amount of explosives is involved in a fire. Evacuation is recommended if the initial (incipient) fire, not involving explosives, becomes intense. General extinguishers may be used on the initial fire not involving explosives, such as electrical equipment fires, tire fires or a general plant fire. Water may be used to cool explosives not involved in the initial fire. Consult the most current Emergency Response Guidebook (ERG), Guide 112 for additional information.

Extinguishing Media

Suitable Extinguishing Media: None.

Unsuitable Extinguishing Media: For fires near explosives, dry chemical, foams, steam and smothering devices are not effective, can lead to possible explosion and must not be used.

Special Hazards Arising from the Substance or Mixture

Fire Hazard: There is an extreme risk that explosives involved in a fire may detonate.

Advice for Firefighters

Precautionary Measures: It is recommended that the amount and location of any explosives stored near a fire be determined prior to committing firefighters to fight the fire.

Firefighting Instructions: When fighting the initial fire, not involving explosives, firefighters should follow standard firefighting procedures for the materials involved.

Hazardous Combustion Products: No unusual combustion products are expected. However, toxic fumes will be present.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures:	Contact the manufacturer or CHEMTREC. No smoking, open flames or flame/spark producing items in the area.
For Non-Emergency Personnel	
Protective Equipment:	Use appropriate personal protection equipment (PPE).
Emergency Procedures:	Isolate the area from unnecessary personnel.
For Emergency Personnel	
Protective Equipment:	Provide cleanup crew with proper PPE.
Emergency Procedures:	Stop the discharge if safe to do so. Ventilate area.
Emergency Precautions:	Avoid release to the environment.
Methods and Material for Containment and Cleaning Up	Contact manufacturer or CHEMTREC.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling	Open and handle receptacle with care. Avoid jolting, friction and impact, use only in well ventilated areas
Additional Hazards when Processed:	Avoid heating explosives in a confined space. Any proposed use of this product in elevated temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. A "hot work" program consistent with OSHA requirements at 29 CFR 1910.252 must be used when performing hot work on explosive process equipment, storage areas or containers related to the intended use.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with soap and water before eating, drinking, or smoking and again when leaving work. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures:	Smoking, open flames, and unauthorized sparking or flame-producing devices are prohibited.
Storage Conditions:	Storage areas should be inspected regularly by an individual trained to identify potential hazards and ensure that all safety and security control measures are being properly implemented. All explosives storage sites must comply with ATF, OSHA or NRCAN regulations.
Incompatible Materials:	Protect from humidity and water.
Special Rules on Packaging:	Packaging in accordance with USDOT or NRCAN regulations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

Ethylene glycol, dinitrate, CAS No. 628-96-6		
USA ACGIH	ACGIH TWA	0.05 ppm
USA OSHA	OSHA PEL (TWA)	1 mg/m³
USA NIOSH	NIOSH REL (STEL)	0.1 mg/m³
Alberta	OEL TWA	0.3 mg/m³
British Columbia	OEL TWA	0.05 ppm
Manitoba	OEL TWA	0.05 ppm
New Brunswick	OEL TWA	0.31 mg/m³
Newfoundland & Labrador	OEL TWA	0.05 ppm
Nova Scotia	OEL TWA	0.05 ppm
Nunavut	OEL STEL	0.31 mg/m³
Nunavut	OEL TWA	1.2 mg/m³
Northwest Territories	OEL STEL	0.31 mg/m³
Northwest Territories	OEL TWA	1.2 mg/m³
Ontario	OEL TWA	0.05 ppm
Prince Edward Island	OEL TWA	0.05 ppm
Québec	PLAFOND	1.2 mg/m³
Saskatchewan	OEL STEL	0.15 ppm
Saskatchewan	OEL TWA	0.05 ppm

Nitroglycerine, CAS No. 55-63-0		
USA ACGIH	ACGIH TWA	0.05 ppm
USA OSHA	OSHA PEL	2 mg/m³
USA NIOSH	NIOSH REL (STEL)	0.1 mg/m³
Alberta	OEL TWA	0.5 mg/m³
British Columbia	OEL TWA	0.05 ppm
Manitoba	OEL TWA	0.05 ppm
New Brunswick	OEL TWA	0.46 mg/m³
Newfoundland & Labrador	OEL TWA	0.05 ppm
Nova Scotia	OEL TWA	0.05 ppm
Nunavut	OEL STEL	0.46 mg/m³
Nunavut	OEL TWA	1.9 mg/m³
Northwest Territories	OEL STEL	0.46 mg/m³
Northwest Territories	OEL TWA	1.9 mg/m³
Ontario	OEL TWA	0.05 ppm
Prince Edward Island	OEL TWA	0.05 ppm
Québec	PLAFOND	1.86 mg/m³
Saskatchewan	OEL STEL	0.15 ppm
Saskatchewan	OEL TWA	0.05 ppm

Exposure Controls:

Appropriate Engineering Controls: Product should be handled and used under strictly controlled conditions. Emergency eye wash fountains and safety showers should be available in the vicinity of any potential exposure, but are not required.

Personal Protective Equipment:

Hand Protection: Chemically resistant gloves are recommended, but not required.

Eye Protection: Safety glasses with side shields or safety goggles.

Respiratory Protection: Approved respiratory protection should be worn when recommended by a risk assessment or if irritation is experienced.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Physical and Chemical Properties:

Appearance:	Solid material
Odor:	None
Vapor density:	Not available
pH:	Not relevant
Melting point (ammonium nitrate):	Not relevant
Initial boiling point and boiling range:	Not available
Flash point (oil):	Not available
Evaporation rate:	Not relevant
Flammability:	Not available
Upper / lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Density:	Variable depending on product
Solubility:	Variable depending on product
Partition coefficient: n-octol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature	Not determined
Viscosity:	Not relevant
Explosive properties:	Mass detonation hazard when involved in a fire
Explosion Data – Sensitivity to Mechanical Impact:	Sensitive to mechanical impact
Explosion Data – Sensitivity to Static Discharge:	Not sensitive to static discharge

SECTION 10: STABILITY AND REACTIVITY

Reactivity and Chemical Stability: Stable and non-reactive under normal conditions of transportation, storage, handling and use.

Possibility of Hazardous Reactions: Polymerization will not occur.

Conditions to Avoid: Open flame and elevated temperatures.

Incompatible Materials: No information available

Hazardous Decomposition Products: No unusual decomposition products expected. However, toxic fumes will be present.

SECTION 11: TOXICOLOGY INFORMATION

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available for product

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: May cause serious eye irritation

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Suspected of causing cancer

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): None

Specific Target Organ Toxicity (Repeated Exposure): None

Aspiration Hazard: Not classified

Symptoms/Injuries after Inhalation: Not expected to be a hazard under normal conditions of use.

Symptoms/Injuries. after Skin Contact: Not expected to be a hazard under normal conditions of use

Symptoms/Injuries after Eye Contact: May cause serious eye irritation. Symptoms may include redness, pain, swelling, itching, burning, tearing and blurred vision.

Symptoms/Injuries after Ingestion: Burning sensation. Abdominal pain. Abdominal cramps. Vomiting. Ammonium nitrate ingestion may cause methemoglobinemia.

Chronic Symptoms: None

LD50 and LC50 Data (ingredients):

Ammonium nitrate, CAS No. 6484-52-2	
LD50 Oral Rat	2,217 mg/kg of body weight
LC50 Inhalation Rat	> 88.8 mg/l/4h

Sodium nitrate, CAS No. 7631-99-4	
LD50 Oral Rat	1,267 mg/kg of body weight

Nitroglycerine, CAS No. 55-63-0	
LD50 Oral Rat	105 mg/kg of body weight
LC50 Inhalation Rat	> 88.8 mg/l/4h

SECTION 12: ECOLOGY INFORMATION

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Call manufacturer or CHEMTREC.

SECTION 14: TRANSPORTATION INFORMATION

Agency	UN Number	Proper Shipping Name	Hazard Class	Label Codes	PG	Marine Pollutant	Other
US DOT	UN0081	Explosive, blasting, type A	1.1D	1.1D		No	ERG-112
Canadian TDG	UN0081	Explosive, blasting, type A	1.1D	1.1D		No	--
IMDG (Vessel)	UN0081	Explosive, blasting, type A	1.1D	1.1D		No	EmS-No, Fire: F-B Spillage: S-Y
IATA (Air)	Contact the manufacturer.						

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:

Emergency Planning and Community Right-To-Know Act (EPCRA), a/k/a Superfund Amendments and Reauthorization Act (SARA) Title III
Toxic Substances Control Act (TSCA)
TSCA Section 8

SARA Section 311/312	Fire hazard Sudden Release of pressure hazard. Immediate (acute) health hazard Delayed (chronic) health hazard
TSCA	All the ingredients are on the United States TSCA inventory.

Canadian Regulations:

Domestic Substances List (DSL)
Workplace Hazardous Materials Information System (WHMIS)

WHMIS Classification	Note: Explosives are regulated by NRCAN and not classified under WHMIS
DSL	All ingredients are listed on the Canadian DSL

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF LAST REVISION

This SDS was prepared in accordance with US (29 CFR 1900.1200) and Canadian (WHMIS 2015) requirements.

SDS: P-11 Initial Issue Date: 6/1/2015 Last Revision Date: 07/05/2016 Version: 6

Party Responsible for the Preparation of This Document:
Austin Powder Company
Cleveland, OH 44122
216-464-2400

This information is based on Austin Powder Company's current knowledge and is intended to describe the product for the purposes of health and safety requirements only. It should not be construed as guaranteeing any specific property of the product.