

P280 - Wear eye protection, protective clothing, protective gloves. P301+P310 - If swallowed: Immediately call a poison center or doctor. P302+P352 - If on skin: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention. P321 - Specific treatment (see Section 4 on this SDS). P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish. P370+P380 - In case of fire: Evacuate area. P372 - Explosion risk in case of fire. P373 - DO NOT fight fire when fire reaches explosives. P401 - Store in accordance with in accordance with, local, regional, national, territorial, provincial, and international regulations. P405 - Store locked up. P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

#### **Other Hazards**

### Hazards Not Otherwise Classified (HNOC): Not available

**Other Hazards:** Toxic hepatitis, aplastic anemia, methemoglobinemia, hemolytic anemia, and cataracts have been reported after occupational exposure. 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.

# **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

Name	Product identifier	% (w/w)	Ingredient Classification (GHS-US)
Ammonium nitrate	(CAS No) 6484-52-2	62 - 72	Ox. Sol. 3, H272
	· · · · ·		Eye Irrit. 2A, H319
Sodium nitrate	(CAS No) 7631-99-4	10 - 18	Comb. Dust, H232
			Ox. Sol. 3, H272
			Eye Irrit. 2A, H319
Distillates, petroleum, hydrotreated light	(CAS No) 64742-53-	1 - 10	Skin Irrit. 2, H315
naphthenic	6		Eye Irrit. 2A, H319
			Carc. 1B, H350
			Asp. Tox. 1, H304
Pentaerythrite tetranitrate	(CAS No) 78-11-5	0.5 - 3	Unst. Expl, H200
Full text of H-phrases: see section 16	•	•	·

## **SECTION 4 - FIRST AID MEASURES**

### **Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Keep at rest and in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. **Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water

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for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Eye irritation. Causes skin irritation. May cause cancer. Aspiration hazard.

Inhalation: May cause respiratory irritation.

Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. Aspiration into the lungs can cause severe pulmonary edema/hemorrhage.

**Chronic Symptoms:** May cause cancer. May cause the blood disorder Methemoglobinemia, and with over exposure in predisposed individuals may cause: renal problems, cardiac abnormalities, other blood disorders. 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.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

# **SECTION 5 - FIRE-FIGHTING MEASURES**

## **Extinguishing Media**

**Suitable Extinguishing Media:** DO NOT fight fires involving explosives. Evacuate the area for 1 mile or more if any amount of explosives are involved in a fire. Evacuation is also required if the initial 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 can be used to cool explosives not involved in the initial fire. For large fires use remotely controlled equipment if available.

**Unsuitable Extinguishing Media:** DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Attempts to smother a fire involving this product will be ineffective as it is its own oxygen source. Smothering this product could lead to decomposition and explosion. This product is more sensitive to detonation if contaminated with organic or oxidizable material or if heated while confined. Unless the mass of product on fire is flooded with water, re-ignition is possible.

Special Hazards Arising from the Substance or Mixture

**Fire Hazard:** In case of fire involving explosives: Evacuate area. DO NOT fight fires involving explosives. Consult the most current Emergency Response Guidebook (ERG), Guide 112 for additional information. Extreme risk of explosion from shock, friction, fire or other sources of ignition.

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** Accelerates the rate of burning materials. Oxidizer.

Advice for Firefighters

**Precautionary Measures Fire:** Evacuate area to a minimum distance of 1 mile or more. Consult the most current Emergency Response Guidebook (ERG), Guide 112 for additional information.

**Firefighting Instructions:** DO NOT fight fires involving explosives. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** When controlling fire before involvement of explosives, fire-fighters should wear positive pressure self-containing breathing apparatus (SCBA) and full turnout gear.

Hazardous Combustion Products: Toxic fumes are released. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Methane. Hydrogen. Hydrogen cyanide.

Reference to Other Sections: Refer to section 9 for flammability properties.

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Remove ignition sources. No naked lights. No smoking. Use special care to avoid static electric

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charges. Evacuate danger area. Do NOT breathe (dust, vapor, mist, gas).

### For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate danger area.

### For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Hazardous waste due to potential risk of explosion.

## Methods and Material for Containment and Cleaning Up

For Containment: Ground equipment electrically. Use only non-sparking tools.

**Methods for Cleaning Up:** Refer to supplier/manufacturer. Clean up spills immediately and dispose of waste safely. Dispose in a safe manner in accordance with local/national regulations.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection

# SECTION 7 - HANDLING AND STORAGE

### **Precautions for Safe Handling**

Additional Hazards When Processed: Avoid dust production. This product is an explosive and should only be used under the supervision of trained and licensed personnel. 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.

**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.

## Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Protect container from physical shock.

**Storage Conditions:** Store tightly closed in a dry, cool and well-ventilated place. Store at room temperature, below 100 ° F (38 °C). Always avoid open flames and excessive heat exposure. Protect from freezing. In case of electrical storm and possible lightning, locations where lightning could strike and initiate explosions, such as storage areas, must be evacuated to a safe distance. Store in accordance with local, regional, national or international regulation.

Incompatible Materials: Heat sources. Strong acids. Strong bases. Strong oxidizers. Reducing agents.

Storage Temperature: < 30 °C (< 86 °F)

Special Rules on Packaging: Keep only in the original container.

Specific End Use(s) Not available

# SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

## **Exposure Controls**

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Safety glasses.

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# Groundbreaking Performance'



Materials for Protective Clothing: Not available

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Safety glasses. In case of excessive dust production, safety goggles are recommended.

Skin and Body Protection: In case of excessive dust production. Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Information on Basic Physical and Chemical Properties		
Physical State	:	Solid
Appearance	:	Light pink waxy/greasy material packaged in a continuous string of
		plastic film cartridges
Odor	:	Not available
Odor Threshold	:	Not available
рН	:	Not available
Evaporation Rate	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	Not available
Flash Point	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20 °C	:	Not available
Relative Density	:	Not available
Specific Gravity	:	1.10 - 1.15
Solubility	:	Water: Product mostly dissolves very slowly over time.
Partition Coefficient: N-Octanol/Water	:	Not available
Viscosity	:	Not available
Explosive properties	:	Explosive; mass explosion hazard
Explosion Data – Sensitivity to Mechanical Impact	:	Sensitive to mechanical impact
Explosion Data – Sensitivity to Static Discharge	:	Static discharge could act as an ignition source.

# **SECTION 10 - STABILITY AND REACTIVITY**

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**Reactivity:** Accelerates the rate of burning materials. Oxidizer.

**Chemical Stability:** Can explode from impact, heat or friction. PETN explodes at 190 - 210 °C (374 - 410 °F). Stable up to approximately 70 °C (158 °F).

**Possibility of Hazardous Reactions:** Extreme risk of explosion by shock, friction, fire, impact, heat or other sources of ignition.

**Conditions to Avoid:** May explode from heat, shock, friction or contamination. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials:** Oxidizers. Reducing agents. Potassium hydroxide. Strong acids. Strong bases. Ammonia. Hazardous Decomposition Products: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Hydrogen. Hydrogen cyanide. Methane.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects - Product Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. Aspiration into the lungs can cause severe pulmonary edema/hemorrhage.

**Chronic Symptoms:** May cause cancer. May cause the blood disorder Methemoglobinemia, and with over exposure in predisposed individuals may cause: renal problems, cardiac abnormalities, other blood disorders. 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.

# Information on Toxicological Effects - Ingredient(s)

|--|

Ammonium nitrate (6484-52-2)				
LD50 Oral Rat	2217 mg/kg			
LC50 Inhalation Rat	> 88.8 mg/l/4h			
ATE US (oral)	2,217.00 mg/kg body weight			
Sodium nitrate (7631-99-4)				
LD50 Oral Rat	> 2000 mg/kg			
Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)				
LD50 Oral Rat	> 5000 mg/kg			
LD50 Dermal Rabbit	> 2000 mg/kg			

# SECTION 12: ECOLOGICAL INFORMATION

Toxicity

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Ecology - General: Harmful to aquatic life with long lasting effects.

Sodium nitrate (7631-99-4)		
LC50 Fish 1	2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
LC 50 Fish 2	994.4 - 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
Distillates, petroleum, hydrotreate	d light naphthenic (64742-53-6)	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Persistence and Degradability		
Sodium nitrate (7631-99-4)		
Persistence and Degradability Readily biodegradable in water.		
<b>Bioaccumulative Potential</b>		
Ammonium nitrate (6484-52-2)		
BCF fish 1 (no bioaccumulation expected)		
Log Pow -3.1 (at 25 °C)		
Sodium nitrate (7631-99-4)		
Log Pow	-3.8 (at 25 °C)	
Bioaccumulative Potential	Not expected to bioaccumulate.	
Mobility in Soil Not available		
Other Adverse Effects		
Other Information: Avoid release to	the environment.	

# SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Consult supplier for specific recommendations.

**Waste Disposal Recommendations:** Refer to manufacturer/supplier for information on recovery/recycling,Destroy and dispose of in accordance with applicable local, state, provincial, territorial, federal and international regulations. Comply with regulations as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR part 555.

Additional Information: Hazardous waste due to potential risk of explosion.

## **SECTION 14 - TRANSPORT INFORMATION**

In Accordance with DOT	
Proper Shipping Name	: EXPLOSIVE, BLASTING, TYPE E
Hazard Class	: 1.1D
Identification Number	: UN0241
Label Codes	: 1.1D
Packing Group	: 11
ERG Number	: 112
In Accordance with IMDG	
Proper Shipping Name	: EXPLOSIVE, BLASTING, TYPE E
Hazard Class	: 1
Identification Number	: UN0241
EmS-No. (Fire)	: F-B
EmS-No. (Spillage)	: S-X
MFAG Number	: 112
In Accordance with IATA	
Proper Shipping Name	: EXPLOSIVE, BLASTING, TYPE E
Hazard Class	: 1
Label Codes	: 1.1D
ERG Code (IATA)	: 1L

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In Accordance with TDG	
Proper Shipping Name	: EXPLOSIVE
Packing Group	: 11
Hazard Class	: 1.1D
Identification Number	: UN0241
Label Codes	: 1.1D

EXPLOSIVE, BLASTING, TYPE E I 1.1D JN0241 1.1D



SECTION 15 - REGULATORY INFORMATION	
US Federal Regulations	
DYNOSPLIT® RIGHT; DYNOSPLIT® EX	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Delayed (chronic) health hazard
	Sudden release of pressure hazard
	Fire hazard
Pentaerythrite tetranitrate (78-11-5)	
Listed on the United States TSCA (Toxic Substances Co	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section
	4 test rule under TSCA.
Ammonium nitrate (6484-52-2)	
Listed on the United States TSCA (Toxic Substances Co	ontrol Act) inventory
Sodium nitrate (7631-99-4)	
Listed on the United States TSCA (Toxic Substances Co	ontrol Act) inventory
Distillates, petroleum, hydrotreated light naphthenic	(64742-53-6)
Listed on the United States TSCA (Toxic Substances Co	ontrol Act) inventory
US State Regulations	(
Ammonium nitrate (6484-52-2)	
Sodium nitrate (7631-99-4)	
Distillates, petroleum, hydrotreated light naphthenic (	64742-53-6)
Pentaerythrite tetranitrate (78-11-5)	51112 00 07
RTK - U.S New Jersey - Right to Know Hazardous Sub	stance List
U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Long Term	
Ammonium nitrate (6484-52-2)	
U.S California - Toxic Air Contaminant List (AB 1807, A	B 2728)
U.S Delaware - Accidental Release Prevention Regulat	
U.S Delaware - Pollutant Discharge Requirements - Re	
	oundwater Reportable Concentration - Reporting Category 1
	oundwater Reportable Concentration - Reporting Category 2
U.S Massachusetts - Oil & Hazardous Material List - Re	
U.S Massachusetts - Oil & Hazardous Material List - So	
U.S Massachusetts - Oil & Hazardous Material List - So	
RTK - U.S Massachusetts - Right To Know List	······································
RTK - U.S New Jersey - Right to Know Hazardous Sub	stance List
U.S New Jersey - Special Health Hazards Substances I	
RTK - U.S Pennsylvania - RTK (Right to Know) - Enviro	
RTK - U.S Pennsylvania - RTK (Right to Know) List	
U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Short Term	
Sodium nitrate (7631-99-4)	
RTK - U.S Massachusetts - Right To Know List	

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RTK - U.S Pennsylvania	- RTK (Right to Know) List
U.S Texas - Effects Scree	ening Levels - Long Term
U.S Texas - Effects Scree	
	drotreated light naphthenic (64742-53-6)
RTK - U.S Massachusetts	
U.S Texas - Effects Scree	
U.S Texas - Effects Scree	
Pentaerythrite tetranitrate	
	o Know Hazardous Substance List
Ammonium nitrate (6484-	
U.S Massachusetts - Rig	
	o Know Hazardous Substance List
	(Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK	
Sodium nitrate (7631-99-4	
U.S Massachusetts - Rig	
U.S Pennsylvania - RTK	(Right to Know) List
Distillates, petroleum, hyd	drotreated light naphthenic (64742-53-6)
U.S Massachusetts - Rigl	
Canadian Regulations	
DYNOSPLIT® RIGHT; DYI	
WHMIS Classification	Note: Explosives are not regulated under WHMIS. They are subject to the regulations
WHINIS Classification	
	of the Explosives Act of Canada.
	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	Class F - Dangerously Reactive Material
	Class C - Oxidizing Material
Pentaerythrite tetranitrate	e (78-11-5)
	L (Domestic Substances List)
Ammonium nitrate (6484-	
	L (Domestic Substances List)
WHMIS Classification	Class C - Oxidizing Material
Codium nitroto (7024.00.4	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Sodium nitrate (7631-99-4	
	L (Domestic Substances List)
	. (Ingredient Disclosure List)
IDL Concentration 1 %	
WHMIS Classification	Class C - Oxidizing Material
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	drotreated light naphthenic (64742-53-6)
Listed on the Canadian DS	L (Domestic Substances List)
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
This product has been class	sified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and
	information required by CPR.
SECTION 16. OTHED IN	ECOMATION INCLUDING DATE OF PREPARATION OF LAST REVISION

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date Other Information

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: 07/20/2020: This document has been prepared in accordance with the SDS requirements of the

OSHA Hazard Communication Standard 29 CFR 1910.1200.



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#### GHS Full Text Phrases:

Asp. Tox. 1	Aspiration hazard Category 1	
Carc. 1B	Carcinogenicity Category 1B	
Comb. Dust	Combustible Dust	
Expl. 1.1	Explosive Category 1.1	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Ox. Sol. 3	Oxidizing solids Category 3	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Unst. Expl	Unstable explosives	
H200	Unstable explosives	
H201	Explosive; mass explosion hazard	
H232	May form combustible dust concentrations in air	
H272	May intensify fire; oxidizer	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H350	May cause cancer	

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Diseleimer

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