

Material Safety Data Sheet

Section 1. Product Information

Product Name:	Smokeless powder, RP 15 Reloder 22
MSDS Number:	
Product ID#:	
Preparation Date:	August 26, 2010

Business Phone/Hours:	540-639-8143
Emergency Telephone #:	540-639-7323
24 Hr. Spill (Chemtrec):	1-800-424-9300

Section 2. Composition/Information On Ingredients

Component Name	Common Name	CAS#
Nitrocellulose	NC	9007-70-0
Nitroglycerin	NG	55-63-0
Diphenylamine	DPA	122-39-4
Di isoamyl pthalate		605-50-5
Centralite I		85-98-3

Section 3. Hazard Identification

Emergency Overview:

DANGER!

Accidental firing, shock, or ignition is likely to cause severe injury or death.

May cause eye irritation
May cause skin irritation
May cause symptoms as headache, dizziness, indisposition, fall of blood pressure and palpitation
Dust may irritate respiratory organs. Higher contents may cause symptoms as headache and dizziness
Irritation

Target Organs				
Cancer Inform	ation: NTP: NA OSHA: NA IARC: NA			
Section 4. Fi	rst Aid Measures			
Eyes:	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.			
Skin:	Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Render unusable and discard contaminated shoes and leather articles.			
Ingestion:	Do Not Induce vomiting. Call a physician or poison control center immediately. NEVER give anything by mouth to an unconscious person. NEVER induce vomiting in an unconscious person			
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. Get immediate medical attention.			
Doctor Notes:	NA			
G .: 5 E				
Section 5. Fi	re Fighting Measures			
Flammable Pro	perties: Flammable EVACUATE AREA IMMEDIATELY. DO NOT fight fire.			
Hazardous Dec	composition Products: Oxides of carbon and nitrogen, trace metal oxides			
Extinguishing 1	Media: Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location.			
Protective Equ	ipment: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire clothing (includes fire fighting helmet, coat, pants, boots, and gloves).			
Unusual Fire a	nd Explosion Hazards: Explosive hazard, may detonate under the right conditions.			
Section 6. A	ccidental Release Measures			
Spills and Leak	Cleanup spills with a soft bristle brush and conductive rubber pan or rubber shovel. Use conductive containers. Avoid pinching material or metal to metal contact. Avoid sharp objects, sand, glass, grit or other material that sensitizes explosives.			
Waste Disposal	Disposal (if explosive) should be carried out under the direct supervision of a qualified person. For industrial disposal, federal hazardous waste regulation allows open burning of explosive wastes in permitted facilities. Check with			

allows open burning of explosive wastes in permitted facilities. Check with

Local authorities before disposal.

Section 7. Handling Information

DO NOT PRESSURIZE OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION

Follow appropriate D.O.D., N.F.P.A. and B.A.T.F. explosive safety measures. Local ordinances may apply.

For handling and storage requirement see 29 CFR 1910.109.

Section 8. Exposure Control Measures / Personal Protection

Component Name	<u>%</u>	CAS Number	Applicable Exposure Limits
Nitrocellulose	>80	9007-70-0	Not Established
Nitroglycerin	<13	55-63-0	OSHA – © 0.2 ppm (Skin*)
			ACGIH - 0.05 ppm TLV (Skin*)
Diphenylamine	<4	122-39-4	OSHA (TWA): 10 mg/m3
			ACGIH (TLV): 10 mg/m3
Di isoamyl pthalate	<2	605-50-5	Not Established
Centralite	<2	85-98-3	Not Established

Engineering Controls:	Prevent build-up of static electric charges. Use process enclosures, local		
	exhaust ventilation, or other engineering controls to control airborne		
	levels below recommended exposures limits. Discharge from the		
	ventilation system should comply with applicable air pollution control		
	regulations.		

Respiratory Protection:	Appropriate	respiratory	protection	is	required	to	reduce	airborne
	contaminants	s, which may	y exceed ac	cept	table limit	s. R	Respirato	rs should
	be selected a	and used in	accordance	wi	th OSHA	, St	ıbpart I	(29 CFR
	1910.134) an	d manufactu	rer's recomn	nen	dations.			

Hand Protection:	Impervious gloves		
Eye Protection:	Safety glasses		
Hygiene Controls:	Avoid contact with eyes, skin and clothing.		
	Avoid breathing dust, vapor, or mist.		
	Handle in areas with adequate ventilation.		
	Wash thoroughly after handling, and before eating, drinking, or smoking		
	Avoid contamination of food, beverages, or smoking materials.		
	Remove contaminated clothing promptly and clean thoroughly before reuse.		

Section 9. Physical And Chemical Properties

Boiling Point:	NA	Solubility:	Insoluble
Melting Point:	NA	Specific Gravity:	NA
Vapor Pressure:	NA	pH:	NA

Vapor Density:	NA	Odor:	Odorless
Flash Point:	NA	Appearance:	Gray-Black single
			perforated grain
Auto-Ignition	Min 175°C		
Temp.:			
UEL:	NA		
LEL:	NA		

Section 10. Stability and Reactivity

Stability:	Stable under recommended handling and storage conditions. Material is sensitive to
	friction, shock, impact, and electrostatic discharge.

Incompatibilities:	Not applicable	
Conditions to Avoid:	Avoid storing product near incompatible materials.	
	Do not store near flammable materials.	
	Do not keep deteriorated or salvaged product.	
	Keep away from heat, flame sparks and other ignition sources.	
	Do not store in direct sunlight or expose to UV radiation	

Hazardous Decomposition Products:		None anticipated under normal or recommended handling
		and storage conditions.

Section 11. Toxicological Information

Component – Diphenylamine: Excessive exposure to dust by inhalation has been reported to cause bladder damage, rapid heartbeat, increased blood pressure, and skin rash.

Component - Nitroglycerin: WARNING! Inhalation may cause severe headache. Ingestion may cause severe headache and blood pressure lowering. Absorption through skin may cause severe headache. Repeated skin contact may cause allergic skin reaction (skin sensitization).

Component – Nitroglycerin: Medical conditions generally recognized as being aggravated by exposure: Severe untreated anemia and glaucoma may be aggravated by extreme overexposure to nitroglycerin in the workplace. Aggravation of these conditions has never been reported as a consequence of workplace exposure but has been reported following protracted medicinal over dosage of nitroglycerin. Alcohol has been reported to intensify any adverse reaction to nitroglycerin.

Not listed as a carcinogen by National Toxicity Program (NTP); not regulated as a carcinogen by Occupational Safety and Health Administration (OSHA); not evaluated by International Agency for Research on Cancer (IRAC). Rats dosed for a lifetime showed a decrease in the number of mammary and pituitary tumors that usually occur.

CARCINOGENICITY/TERATOGENICITY INFORMATION

<u>Reported Human Effects:</u> The effects reported above are only ones that have been reported following workplace exposure. The following additional effects have been reported following medicinal usage or over usage: faintness, skin flush, palpitation, rapid

heartbeat, dizziness, abdominal pain, retrosternal discomfort, muscle twitches, Heinz bodies (black spheres in red blood cells), methemoglobinemia, depression, confusion, skin irritation, and allergic skin reaction

Not teratogenic in rats or rabbits. Inactive in dominant lethal mutagenicity test. No effect on fertility in reproduction test. At many times the dose that would be received following exposure at the TLV, methemoglobinemia and fibrous tissue formation in the bile ducts were seen. Testicular effects were seen in rats dosed for 3 months at over 20,000 times the dose a worker would receive working in the TLV. In lethal dose determination in rats, rapid breathing, poor muscle tone, raised hair and excessive activity were seen.

Section 12. Ecological Data

NA

Section 13. Disposal Considerations

Disposal of material should be in accordance with Federal, State and local regulations.

Section 14. Transportation Information

U.S. DOT Proper Shipping Name:	Smokeless powder for small arms
	(100 pounds or less)
UN ID No.:	NA3178
Class & Division:	4.1
Packing Group.:	I

Section 15. Regulatory Information

OSHA:

TSCA:	Section 12(b) Listed: X	Unlisted:	Exempt:

CERCLA: Repo	ortable Quantity: 76 poi	ınds (based on nitroglycerin content)				
SARA Title III:						
Section 302:	Chemical Name: NA					
	Threshold Planning Quantity: NA Reportable Quantity: 76 pounds (CERCLA RQ)					
Section 311/312:	Hazard Class: ⊠Acute ⊠Chronic ⊠Fire ⊠Reactive ⊠Sudden Release of Pressure					
Section 313:	Chemical Name:	CAS Number/Category Code:	Weight %:			
	Nitroglycerin	55-63-0	<13			
	Diphenylamine	122-39-4	<4			
Other:						

Section 16. Information Sources

Label Information:

DANGER!

EXPLOSIVE
KEEP AWAY FROM HEAT, SPARKS OR OPEN FLAME
DO NOT ATTEMPT TO FIGHT FIRE
MAY CAUSE SKIN IRRITATION

Residual dust may ignite.

Ingestion May cause symptoms as headache, dizziness, indisposition, fall of blood pressure and palpitation.

FIRST AID: In case of contact, immediately flush skin with water. Remove contaminated clothing and shoes. Call physician if irritation develops and persists.

In case of spill: use soft natural bristle brush and conductive rubber or conductive plastic shovel and dispose accordingly.

Read product-specific MSDS for more details

Abbreviation Key:

ACHIH: American Conference of Governmental Industrial Hygienist

AICS: Australian Inventory of Chemical Substances

AIHA WEEL: American Industrial Hygienists Association - Workplace

Environmental Exposure Level

ANSI: American National Safety Institute

C: Ceiling

CASRN: Chemical Abstracts Service Registry Number

CERCLA: Comprehensive Emergency Response, Compensation and Liability Act

DSL: Domestic Substances List (Canadian)

EIECCS: European Inventory of Existing Commercial Chemical Substances

HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
MITI: Ministry of International Trade and Industry (Japanese)

N/A: Not Applicable

NDSL: Non-domestic Substances List (Canadian)
NFPA: National Fire Prevention Association
NOR: Not Otherwise Regulated

NOR: Not Otherwise Regulated
NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act RQ: Superfund Amendment Reauthorization Act

STEL: Short Term Exposure Limit
TLV: Threshold Limit Value (ACGIH)
TPQ: Threshold Planning Quantity

Page 6 of 7 Product Name: Smokeless powder, RP 15 Reloder 22 Revision Date: August 26, 2010

TSCA: Toxic Substances Control Act TWA: Time Weighted Average

Disclaimer:

Although the information contained in this material safety data sheet has been compiled from sources believed to be reliable, no warranty, guaranty or representation is made as to the accuracy or completeness of the information contained herein and no responsibility or liability is assumed regarding the suitability of this information for the user's intended purpose or the consequences of its use. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its obligations under any applicable federal, state, or local law or regulation.

Corporate MSDS Template Version I.doc ANSI Z-400.2003 11/30/05

Page 7 of 7 Product Name: Smokeless powder, RP 15 Reloder 22 Revision Date: August 26, 2010