MAXLINE LEAD IN LINE 1000M

SAFETY DATA SHEET – INITIATION SYSTEMS

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Identifier:

Product Name: MAXLIINE Lead In Line

Other Means of Identification:

Synonyms: MAXLINE, Non-electric signal tube

Proper Shipping Name: ARTICLES, EXPLOSIVE, N.O.S.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: Initiation of explosive charge

Restrictions on Use: For use only by suitably qualified, trained and licenced persons

Supplier's Details:

Supplier's Name: Nitro Sibir Australia

Address: Suite 3, Level 1, 1 Puccini Court
Stirling WA 6021

Telephone: +61 8 9022 3821

Emergency Telephone Number:

Emergency Number: 1800 884 289 (all hours)

SDS Date: April 2022

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Not classified as hazardous according to Safe Work Australia.

Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Explosives by Road and Rail: DANGEROUS GOODS.

GHS Label Elements, Including Precautionary Statements:

Explosives – Division 1.4

Signal Word: Warning

Exploding Bomb

Hazard Statement(s):
H204: Fire or projection hazard

Precautionary Statement(s):

Prevention:
P210: Keep away from heat/sparks/open flames/surfaces - No Smoking.
P240: Ground/bond container and receiving equipment.
P250: Do not subject to grinding/shock/heat/friction/impact or electrical energy from external sources.
P280: Wear protective gloves, protective clothing, eye and face protection.

Response:
P370+P380: In case of fire: Evacuate area.
P372: Explosion risk in case of fire.
P373: DO NOT fight fire when fire reaches explosives.

Storage:
P401: Store in a well-ventilated magazine licensed for Class 1.4S Explosives in accordance with Australian Standard AS2187.1

Disposal:
P501: Dispose of contents in accordance with national/regional/local regulations.

POISONS SCHEDULE (SUSMP): None allocated.

Other Hazards Which Do Not Result in Classification:

Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS	Proportion
RDX - Cyclonite (Hexahydro-1,3,5-trinitro-1,3,5-trazine)	121-82-4	<1%
Aluminium Powder (stabilised)	7429-90-5	<1%
Materials determined not to be hazardous	-	to 100%

4. FIRST AID MEASURES

Description of Necessary First Aid Measures:

General Advice: For advice, contact a doctor or Poisons Information Centre (131 126).

Inhalation: In case of inhalation of blasting fumes: Move the victim to fresh air while avoiding becoming a casualty. Loosen restrictive clothing and keep at rest until fully recovered. If breathing is difficult ensure airway is clear of any obstruction and allow a qualified person to administer oxygen through a face mask. Apply artificial respiration if patient is not breathing and seek immediate medical advice/attention.

Eye: Not an expected route of exposure.

Skin: Not an expected route of exposure. If irritation develops, seek medical advice/attention.

Ingestion: Not an expected route of exposure. If ingested, seek medical attention.

Most Important Symptoms/Effects, Acute and Delayed:

Symptoms and Effects: No information available.

Indication of Immediate Medical Attention and Special Treatment, if Necessary:

Information to Doctor: Shrapnel from detonation may cause wounds, burns and bruising.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Suitable Extinguishing Media: Coarse water spray (large quantities).

Unsuitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Foam.

Specific Hazards Arising from the Chemical:

Specific Hazards:	Explosive material. Not a mass explosion risk. May burn vigorously with localised detonations and projection of fragments, with effects usually confined to the immediate vicinity.
Hazards from Combustion Products:	On burning, the plastic tubing will emit toxic fumes, including those of oxides of carbon, oxides of nitrogen and oxides of aluminium.

Special Protective Actions for Fire Fighters:

Precautions and Special Protective Equipment:	Explosive material. In case of small fire where the actual product is not involved, carefully remove explosives to a safe distance, otherwise immediately isolate area and evacuate personnel to a safe distance and allow to burn. Fight fire remotely due to the risk of explosion. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing due to risk of exposure to products of combustion. IF detonators or other explosives are present, DO NOT fight fires involving explosives.
HAZCHEM CODE:	1YE

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

For Non-Emergency Personnel:	Prior to clean up of a spill, eliminate all sources of ignition. Clear the area of all personnel and evacuate to a safe area. In the case of a transport accident notify the emergency services, Explosives Inspector and Nitro Sibir Australia.
For Emergency Personnel:	Only personnel trained in emergency response should respond. Eliminate all sources of ignition. If no fire danger is present, repackage undamaged product in original packaging. Ensure all product is accounted for. Surplus or defective product must not be placed in any waterway, buried, thrown away, discarded or placed with rubbish.

Environmental Precautions:

Environmental Precautions:	Contain the source and prevent the spread of the spill to ensure it does not contaminate drains and waterways.

Methods and Materials for Containment and Cleaning Up:

Methods for Containment:	Prevent run off into drains and waterways. Clean up immediately.
Methods for Cleaning Up:	Repackage undamaged product in original packaging. Damaged product must be placed in clean, approved containers which are then labelled and sealed.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Advice for Safe Handling:	Handle with great care. Avoid damage to tubing. Do not fire the product when on spool. DO NOT subject the material to impact, friction, heat or fire. Only properly qualified and authorised personnel should handle and use the shock tube. No smoking.
General Hygiene Advice:	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product.

Conditions for Safe Storage Including any Incompatibilities:

Conditions for Safe Storage:	Store in a dry, cool, well-ventilated magazine suitably licenced for Class 1.4S explosives. Store away from sources of heat or ignition.

Storage Incompatibilities:	Incompatible with combustible materials and oxidising substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Exposure Limits: No exposure value has been assigned to this material by Safe Work Australia, however for constituent(s) and decomposition product(s) according to Safe Work Australia Exposure Standards for Airborne Contaminants:

Aluminium (metal dust): 8hr TWA – 10mg/m^3

TWA – 8-hour time-weighted average (TWA) means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.

Appropriate Engineering Controls:

Engineering Controls: Keep product in the original packaging when not in use to prevent exposure to external stimuli. Provide adequate ventilation. Natural ventilation should be adequate under normal conditions of use.

Individual Protection Measures, such as Personal Protective Equipment (PPE):

Individual Protection Measures: A detailed and documented risk assessment must be carried out to determine minimum PPE requirements.

Protective safety boots and safety glasses are recommended to be worn at all times when handling and using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties and Safety Characteristics:

Physical State:	Hollow plastic tube
Colour:	Various
Odour:	Odourless
Odour Threshold:	Not applicable
Melting / Freezing Point:	Not applicable
Initial Boiling Point and Boiling Range:	Not applicable
Flammability:	Explosive product – avoid all sources of ignition, friction and heat
Lower / Upper explosion limit / flammability limit	No data available
Flash Point:	Not applicable
Auto-ignition temperature:	No data available
Decomposition Temperature:	No data available
pH:	Not applicable
Kinematic Viscosity:	Not applicable
Solubility:	Not soluble in water

Partition Coefficient:	Not applicable
Vapour Pressure:	Not applicable
Relative Density:	Not appliable
Vapour Density:	Not applicable
Particle Characteristics:	Not applicable
Explosive Properties:	Explosive; fire or projection hazard
Further Safety Characteristics:	No information available

10. STABILITY AND REACTIVITY

Reactivity:

Explosive product.

Chemical Stability:

Stable at normal ambient temperature and pressure. Stable under recommended storage conditions. Not a mass explosion risk.

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur. Reacts with oxidising agents.

Conditions to Avoid:

Avoid exposure to heat, sources of ignition, open flame, shock and friction. Avoid build up of static electricity. Avoid damaging tube. Avoid leaving ends of tubing open – ends of spools or rolls should be kept sealed with the end cap supplied.

Incompatible Materials:

Incompatible with combustible materials and oxidizing substances. Incompatible with heat and hot surfaces.

Hazardous Decomposition Products:

Thermal decomposition may result in the release of irritating and/or toxic fumes of nitrogen, carbon and aluminium.

11. TOXICOLOGICAL INFORMATION

General Advice:

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label. Construction of the product should prevent any chemical contamination.

Acute Toxicity:

There is no data for this product.

Information on Likely Routes of Exposure:

Skin corrosion / irritation:	Not a likely route of exposure. Not expected to cause skin corrosion or irritation.
Serious eye damage / irritation:	Not a likely route of exposure. Not expected to cause eye damage or irritation.
Respiratory or skin sensitisation:	Not a likely route of exposure. Not expected to cause respiratory or skin sensitisation.
Germ cell mutagenicity:	Not classified as a mutagen.
Carcinogenicity:	None of the ingredients of this product are listed as a carcinogen by NTP, IARC or OSHA.

Reproductive toxicity:	Not classified as a reproductive toxin.
Specific target organ toxicity (STOT):	**Single exposure** – There is no available information for this product.
Specific target organ toxicity (STOT):	**Repeated exposure** – There is no available information for this product.
Aspiration hazard:	This material is not considered an aspiration hazard.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Skin Contact:	No information available.
Inhalation:	No information available.

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure:

Skin Contact:	No information available.
Inhalation:	No information available.

Numerical Measures of Toxicity:

No information available.

Interactive Effects:

No information available.

Toxicological Data: No LD50 data available for this product. Exposure to explosive material is unlikely.

12. ECOLOGICAL INFORMATION

Exotoxicity:

The product as supplied and undamaged presents no ecological concerns provided waste is correctly disposed of.

Persistence and Degradability:

There is no available information for this product.

Bioaccumulative Potential:

There is no available information for this product.

Mobility in soil:
There is no available information for this product.

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Destruction of explosives must only be carried out by suitably qualified and licensed personnel. If necessary, the relevant Statutory Authorities must be notified. In all circumstances, detonation is the preferred method of disposal.

Small quantities of damaged or deteriorated explosives may be destroyed by inclusion in a blast hole containing good explosive material. For larger quantities or deteriorated product, contact a Nitro Sibir Australia representative for advice.

14. TRANSPORT CONSIDERATIONS

Road and Rail:

Classified as a Class 1 (Explosives) Dangerous Goods according to the Australian Code for the Transport of Explosives by Road and Rail.

UN Number: UN0349
Proper Shipping Name: ARTICLES, EXPLOSIVE, N.O.S.
Transport Hazard Class: 1.4S
Packing Group: None assigned
Hazchem Code: 1YE

Sea Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for Transport by Sea.

UN Number: UN0349
Proper Shipping Name: ARTICLES, EXPLOSIVE, N.O.S.
Transport Hazard Class: 1.4S
Packing Group: None assigned
IMDG EMS Fire: F-B
IMDG EMS Spill: S-X

Environmental hazards: Not a known marine pollutant.

Air Transport:

Classified as Dangerous Goods according to the the International Air Transport Association (IATA) Dangerous Goods Regulations for Transport by Air. May be carried on passenger and cargo aircraft with prior approval of the aircraft operator.

UN Number: UN0349
Proper Shipping Name: ARTICLES, EXPLOSIVE, N.O.S.
Transport Hazard Class: 1.4S

Special Precautions for User:

Transport Information: Dangerous Goods of Class 1 (Explosives) are incompatible in a placard load with the following:
Class 2.1 – Flammable Gas
Class 2.2 – Non-flammable Non-toxic Gas
Class 2.3 – Toxic Gas
Class 3 – Flammable Liquid
Class 4.1 – Flammable Solid
Class 4.2 – Spontaneously Combustible Substance
Class 4.3 – Dangerous When Wet Substance
Class 5.1 – Oxidising Agent
Class 5.2 – Organic Peroxide
Class 6 – Toxic and Infectious Substance
Class 7 – Radioactive Substance
Class 8 – Corrosive
Class 9 – Miscellaneous Dangerous Goods
Fire Risk Substances

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations Specific for the Product in Question:

Australia:

Classified as dangerous goods in accordance with the Australian Code of Practice for the Transport of Explosives by Road and Rail.

Not classified as a hazardous chemical according to the criteria of Safe Work Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons. Not Scheduled.

All components of this material are listed on the Australian Inventory of Chemical Substances (AICS), or are exempt.

International Agreements:

This product is not subject to the Montreal Protocol on Substances that Deplete the Ozone Layer.

This product is not subject to the Stockholm Convention on Persistent Organic Pollutants.

This product is not subject to the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

16. OTHER INFORMATION

Revision Date: April 2022

Reason(s) for Issue: Alignment to Safe Work Australia and GHS requirements.

Abbreviations used:

CAS No	Chemical Abstract Service number (chemical unique identifier)
EMS	Emergency Schedules (procedures for ships carrying dangerous goods)
g/cm^3	grams per cubic centimetre
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
LD50	Lethal Dose, 50%
OSHA	Occupational Safety and Health Administration
pH	Scale of acidity from 0 (acidic) to 14 (alkaline), pH 7 is neutral
PPE	Personal Protective Equipment
Ppm	Parts per million
mg/m^3	Milligrams per cubic metre
NTP	National Toxicology Program
STEL	Short-term Exposure Limit
STOT	Specific Target Organ Toxicity
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TWA	Time Weighted Average

The information contained in this SDS is believed to be accurate and has been obtained from sources considered reliable. Users of this information should make their own investigations to determine the suitability of the information for their particular use or situation. NITRO SIBIR AUSTRALIA does not in any way warrant or imply the applicability, viability or use of this information to any person, for use in any situation.

- - - - END OF SDS - - - -