



205 Bossard Road, Groton, NY 13073 USA

SAFETY DATA SHEET

MSDS DATE: 08/08/2013

FILE NO.: 69

NPb, NPb MINI

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NPb Electric Igniter
SYNONYMS: NPb Igniter, NPb ematch, e-match, Igniters
PRODUCT CODES: UN0454

MANUFACTURER: MARTINEZ SPECIALTIES, INC.
DIVISION: GROTON, NEW YORK USA
ADDRESS: 205 BOSSARD ROAD
GROTON, NY 13073 USA

24 HOUR EMERGENCY PHONE: 1-813-248-0585
CHEMTEL CONTRACT #: MIS0005794
OTHER CALLS: 1-607-898-3053
FAX PHONE: 1-607-898-3592

PRODUCT USE: IGNITION SOURCE
PREPARED BY: ANNA YOUNG

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

PER OSHA 29 CFR 1910.1200		EXPOSURE LIMITS		
CHEMICAL NAME:	CAS#	OSHA (PEL)	ACGIH (TLV)	OTHER LIMITS %
BISMUTH TRIOXIDE	1304-76-3	15mg/m3	10mg/m3	
BORON	7440-42-8	15mg/m3	10mg/m3	orl rat LDLo: 32g/kg/30 days
POTASSIUM PERCHLORATE	7778-74-7	Not Established	Not Established	orl rat LDLo: 2,100 mg/kg
TITANIUM	7440-32-6	Not Established	Not Established	ims-rat LDLo: 114 mg/kg/77W-1

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary hazard is from thermal burns caused by accidental ignition of igniters. Deliberate inhalation or ingestion of large amounts of crushed igniter head composition may cause respiratory discomfort. Not absorbed through skin.

ROUTES OF ENTRY: Ingestion

POTENTIAL HEALTH EFFECTS

EYES: NO

SKIN: NO

INGESTION: NO

INHALATION: NO

ACUTE HEALTH HAZARDS: Bismuth Trioxide ingestion has no adverse effects, however, ingestion is not advised.

CHRONIC HEALTH HAZARDS: See Boric Acid exposure. Large doses of Boron compounds can cause depression of the circulation, persistent vomiting and diarrhea, followed by shock and coma.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Smoke generated by burning igniters may cause respiratory irritation in those individuals with asthma, allergies or other preexisting respiratory conditions.

CARCINOGENICITY

OSHA: NO

ACGIH: NO

NTP: NO

IARC: NO

OTHER: NO



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SECTION 4: FIRST AID MEASURES

EYES: Hold eye open and flush slowly and gently with plenty water for several minutes. Remove any contact lenses, and continue flushing for several more minutes. Seek medical attention if irritation develops or persists.

SKIN: May cause local irritation, but material is not absorbed through skin. Wash affected area with soap or mild detergent and water for at least 15 minutes. Seek medical attention if irritation develops or persists.

INGESTION: Drink large amounts of water. No known adverse effects, however, ingestion is not advised. Seek medical attention should irritation develop or persist.

INHALATION: Dust may irritate throat. Move patient to fresh air. Do not induce vomiting. Seek medical attention if irritation develops or persists.

SECTION 4 NOTES: Seek immediate medical attention for any signs or symptoms of respiratory distress.

PHYSICIAN NOTES: Smoke contains oxides of Boron and Titanium.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) **LOWER:** N/A

FLASH POINT:

F: N/A

C: N/A

EXTINGUISHING MEDIA: Flood with water if a small number of pieces are involved.

SPECIAL FIRE FIGHTING PROCEDURES: Do not use suffocation method; device contains its own oxygen.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Items will burn rapidly in the event of fire. Items may be propelled if not contained.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Avoid shock, friction, static electricity and open flames.

Keep away from heat or flame.

In case of package rupture transfer products to similar package by authorized personnel.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep away from heat and open flame. Store in cool, dry place. Store according to government regulations.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION : N/A

RESPIRATORY PROTECTION: Nuisance dust/ particulate filter mask if large numbers of igniters are ignited in a small area.

EYE PROTECTION: Goggles or safety glasses.

SKIN PROTECTION: N/A

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeves. Natural fiber clothing to reduce static potential.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Medium brown colored bead of pyrotechnic composition on an epoxy/ molded substrate with 2 connecting wires with a protective coating covering composition.

ODOR: N/A

PHYSICAL STATE: Solid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: N/A

F:

C:

MELTING POINT: N/A

F:

C:

VAPOR PRESSURE (mmHg): N/A

@

F:

C:

VAPOR DENSITY (AIR = 1): N/A

@

F:

C:

SPECIFIC GRAVITY (H₂O = 1): N/A

@

F:

C:

EVAPORATION RATE: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: Insoluble with protective coating intact.

DECOMPOSITION STATE: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Exposure to friction, shock, open flames, ignition sources including sparks, strong RF fields and static discharge.

INCOMPATIBILITY (MATERIAL TO AVOID): N/A



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HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Smoke, oxides, chlorides, and other gaseous and solid particulates.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): Heat, sparks, flame.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No toxicological effects.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No effects.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Small quantities can be disposed of by open burning if permitted.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Igniters
HAZARD CLASS: 1.4S
ID NUMBER: UN0454
PACKING GROUP: II
EXEMPTION: EX2006070113

AIR TRANSPORTATION

PROPER SHIPPING NAME: Igniters
HAZARD CLASS: 1.4S
ID NUMBER: UN0454
PACKING GROUP: II
PACKING METHOD: 142

SECTION 15: REGULATORY INFORMATION

In the USA, it is required by the BATFE to be licensed/permited to purchase, sell or possess electric igniters. Most US states require state, local or Fire Marshal approval/ permits.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: All pyrotechnics should be used and handled with extreme caution, in accordance with all relevant regulations and codes only by experienced personnel.

In case of appropriate handling no toxic or ecological risks are to be expected.

The information contained herein is based on the present state of our knowledge. It serves as a guideline on proper handling of the product.