



MATERIAL SAFETY DATA SHEET

PRODUCT: Burning Bars
PREPERATION DATE: 2/17/2011
REVISION DATE: N/A

SECTION 1: PRODUCT IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Burning Bars
SYNONYMS: Lance Pipe, Exothermic Cutting Torch Expendable
PART #: 78058061, 78058051, 78058081, 78058085, 78058091
MANUFACTURER: Flame Technologies Inc.
ADDRESS: 703 Cypress Creek Road
Cedar Park, TX 78613
EMERGENCY PHONE: (800)749-3682 / (512)219-8481
FAX PHONE: (512)219-8477
PRODUCT USE: Exothermic Cutting

SECTION 2: COMPOSITION AND INFORMATION ON COMPONENTS

INGREDIENT:	CAS NO.	%WT	PEL (OSHA)	TLV (ACGIH)
Iron	7439-89-6	97-99.5	5MG/M	5MG/M
Carbon	7440-44-0	0.06-0.14	N/E	N/E
Silicon	7440-21-3	1.8-4.0	15mg/cu.m	10mg/cu.m
Manganese	7439-96-5	<1.2	C5mg/cu.m AS DUST	C5mg/cu.m AS DUST 1 AS FUME
Nickel	7440-02-0	0.01-1.5	1mg/cu.m	1mg/cu.m
Chromium	7440-47-3	0.02-0.13	.1mg/cu.m	.5mg/cu.m
Chromium (Hexavalent)			N/E	.05mg/cu.m
Molybdenum	7439-98-7	0.01-0.75	15mg/cu.m	10mg/cu.m
Sulfur	7704-34-9	0.02	N/E	N/E
Phosphorus	7723-14-0	<0.05	.1mg/cu.m	.1mg/cu.m
Aluminum	7429-90-5	0.003-0.06	N/E	N/E

N/E – Means None Established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Health and physical hazards associated with exothermic cutting are attributed to the fumes generated during the cutting process. The AC GIH recommended TLV for cutting fume NOC (Not Otherwise Classified) is 5MG/M3. See reactivity data for specific fume constituents, which may modify this per TLV.

ROUTES OF ENTRY:

EYES: Dust may cause eye irritation.

SKIN: Dust may cause skin irritation.

INGESTION: Not known.

INHALATION: Dust is suspected as being possible inhalation hazard.

ACUTE HEALTH HAZARDS: Cutting fumes may result in discomfort such as dizziness, nausea, or dryness or irritation of the nose, throat, or eyes. In confined areas, may lead to unconsciousness and death.

CHRONIC HEALTH HAZARDS: Fumes may lead to siderosis, and is believed y some investigators to reduce pulmonary function.

CARCINOGENICITY: LISTED IN NTP? No IARC? No OSHA REGULATED? No

SECTION 4: FIRST AID AND MEASURES

EYES: In case of contact, immediately flush eyes with copious amounts of flowing water for at least 15 minutes, retracting eyelids often. Get medical attention immediately. Contact lenses should not be worn when working with this product.

SKIN: Wash skin thoroughly with mild soap and water. Flush with warm water for 15 minutes.

INGESTION: Not known.

INHALATION: If large amounts of the dust are inhaled, move the exposed person to fresh air at once. If the symptoms persist contact a physician.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS: IN AIR, UPPER: Not Available
(% BY VOLUME) LOWER: Not Available

FLASH POINT: Not Available

AUTOIGNITION TEMPERATURE: Not Available

NFPA HAZARD CLASSIFICATION: Not Available

HMIS HAZARD CLASSIFICATION: Not Available

GENERAL HAZARD: Non-flammable welding arc and sparks can ignite combustibles and flammable products. Reference ANSI-Z49.1 NFPA-51NB.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: This product is not subject to "accidental release" in the form of normal use.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Wash thoroughly after handling. Store in the containers in which the product is shipped, tightly sealed and in a dry area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use air samples to determine the composition and quantity of fumes and gases to which workers are exposed. Take air samples inside the workmen's helmet and shield or breathing zone. Reference ANSI/AWS-F1.1.

VENTILATION: Use general ventilation, local exhaust at the torch top, or general vicinity to keep fumes and gases below the PEL/TLV in the worker's breathing zone and general area. Train the worker to keep his head out of the fume plume.

RESPRATORY PROTECTION: Use NIOSH approved fume respirator or air supplied respirator when cutting in confined spaces or where ventilation does not keep fume exposures below PEL/TLV.

EYE PROTECTION: Wear goggles, face shield, or welding helmet with the correct shade or filter lens. Provide protective screens and flash goggles to shield others.

SKIN PROTECTION: As a minimum wear leather gloves, arm, shoulder protectors, apron, face shield, and hard hats. Reference ANSI-Z19.1.

WORK HYGIENIC PRACTICES: These torches are used with a single gas, which is oxygen. Oxygen causes rapid burning. Do not use oxygen to blow off clothing or materials, as a spark could ignite oxygen saturated materials and cause burns.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Steel Tube or Tubes with or without wires.**ODOR:** No notable odor**PHYSICAL STATE:** Solid**pH AS SUPPLIED:** Not Applicable**BOILING POINT:** Not Available**MELTING POING:** Not Available**FREEZING POINT:** Not Applicable**SOLUBILITY IN WATER:** Not Soluble**VAPOR PRESSURE:** Not Applicable**SPECIFIC GRAVITY:** Not Applicable**VAPOR DENSITY:** Not Applicable**EVAPORATION RATE:** Not Applicable

SECTION 10: STABILITY AND REACTIVITY

STABILITY: The product is stable under normal use conditions.**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** The composition of fumes and gases depend upon the material being cut. The quantity of fumes to which the workman is exposed depends upon the cutting process, number of workmen in the work area who are also cutting, volume of the area, amount of ventilation, and weather the workmen keeps his head out of the fume plume. Listed are fume and gas products which may reasonably be expected when the torch or lance is consumed in normal operation. Included are those originating from the oxidation, volatilization, and reaction of the ingredients listed in the hazardous ingredients section, plus those from the base metal.

Fume/Gases	CAS	PEL(OSHA)	TLV(ACGIH)
Iron Oxide	1309-38-2	5 MG/M3	10 MG/M3
Carbon Dioxide	124-30-9	5000 P.P.M	5000 P.P.M.
Carbon Monoxide	630-08-0	50 P.P.M	50 P.P.M.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No data available.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Discard any products, residue, disposal container, or liner in an environmentally acceptable manner, in full compliance with local, state, and federal regulations.**RCRA HAZARD CLASS:** It is the responsibility of the user to determine if this material is a RCRA Hazardous Waste at the time of disposal.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: No information**WATER TRANSPORTATION:** No information**AIR TRANSPORTATION:** No information



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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components are listed on TSCA section 8(b)

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None. We recommend that you contact local authorities for other reporting requirements.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: Acute and Chronic

313 REPORTABLE INGREDIENTS:

CHEMICAL NAME: Nickel

CAS NUMBER: 7740-02-0

PERCENTAGE: 0.15

STATE REGULATIONS: None. We recommend that you contact local authorities for other reporting requirements.

INTERNATIONAL REGULATIONS: None. We recommend that you contact local authorities for other reporting requirements.

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: By: David Kowal

Date: February 17, 2011

DISCLAIMER: Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Information presented herein has been compiled from source considered to be accurate and dependable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be constructed as recommending any practice or any product in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as necessary. Since conditions of use are not under our control, we must disclaim all liability with respect to the use and disposal of our products.