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MATERIAL SAFETY DATA SHEET

WELDING CONSUMABLES AND RELATED PRODUCTS
CONFORMS TO OSHA 1910.1200

TRADE NAME: OXY-GUN BURNING BAR/LANCE PIPE

HAZARDOUS INGREDIENTS

THIS SECTION LISTS THE INGREDIENTS (0.01%) FROM WHICH THIS PRODUCT IS MANUFACTURED WHICH ARE DEFINED AS HAZARDOUS MATERIALS ACCORDING TO OSHA HAZARDOUS COMMUNICATION STANDARD (29CFR1910.1200). THE FUMES AND GASES PRODUCED DURING NORMAL CUTTING WITH THIS PRODUCT ARE COVERED IN THE REACTIVITY DATA SECTION. *N/E = NONE ESTABLISHED

<u>INGREDIENT</u>	<u>CAS</u>	<u>PERCENT</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
IRON	7439-89-6	97 - 99.5	10 MG/CU.M	5 MG/CU.M
CARBON (DUST)	7440-44-0	-.06 - .14	10 MG/CU.M	15 MG/CU.M
SILICON	7440-21-3	1.8 - 4.0	15 MG/CU.M	10 MG/CU.M
MANGANESE	7439-96-5	<1.2	C5 MG/CU.M AS DUST	C5 MG/CU.M AS DUST
NICKEL	7440-02-0	0.01 - 1.5	1 MG/CU.M	1 MG/CU.M
CHROMIUM	7440-47-3	0.02 - 1.13	.1 MG/CU.M	.5 MG/CU.M
CHROMIUM (HEXAVALENT)			N/E	.05 MG/CU.M
MOLYBDENUM	7439-98-7	0.01 - 0.75	5 MG/CU.M	10 MG/CU.M
SULFUR (SULFUR DIOX.)	7704-34-0	0.02	5 P.P.M.	N/E
PHOSPHORUS	7723-14-0	<0.05	.1 MG/CU.M	.1 MG/CU.M
ALUMINUM	7429-90-5	0.003 - 0.06	10 MG/CU.M	15 MG/CU.M

PHYSICAL & CHEMICAL CHARACTERISTICS

STEEL TUBE OR TUBES WITH OR WITHOUT STEEL WIRES.

FIRE & EXPLOSION DATA

NONFLAMMABLE. WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLE PRODUCTS. REFERENCE: ANSI - Z49.1, NFPA - 51B.

PHYSICAL HAZARDS (REACTIVITY DATA)

THE COMPOSITION OF FUMES AND GASES DEPENDS UPON THE MATERIAL BEING CUT. THE QUANTITY OF FUMES OF 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 WHETHER 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.

<u>FUME/GASES</u>	<u>CAS</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
IRON OXIDE	1309-38-2	5 MG/CU.M	10 MG/CU.M
CARBON DIOXIDE	124-30-9	5000 P.P.M.	5000 P.P.M.
CARBON MONOXIDE	630-08-0	50 P.P.M.	59 P.P.M.

HEALTH HAZARDS

THE ACGIH RECOMMENDED TLV FOR CUTTING FUME NOC (NOT OTHERWISE CLASSIFIED) IS 5 MG/CU.M. SEE REACTIVITY DATA FOR SPECIFIC FUME CONSTITUENTS WHICH MAY MODIFY THIS PEL/TLV.

ACUTE OVER EXPOSURE: TO 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 OVER EXPOSURE: TO CUTTING FUMES MAY LEAD TO SIDEROSIS AND IS BELIEVED BY SOME INVESTIGATORS TO REDUCE PULMONARY FUNCTION.

EMERGENCY/FIRST AID PROCUDURES: PROVIDE OXYGEN IF BREATHING IS DIFFICULT. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION AND GET MEDICAL HELP. TREAT SKIN AREAS EXPOSED TO BURNS. OBTAIN MEDICAL AID FOR ALL OVEREXPOSURES AND EYE INJURIES.

CARCINOGENITY: PRODUCTS DO NOT CONTAIN INGREDIENTS THAT ARE DEFINED AS CARCINOGENIC PER 29CFR1910.1200.

SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

AIR SAMPLING: TO DETERMINE THE COMPOSITION AND QUANTITY OF FUME AND GASES TO WHICH WORKERS ARE EXPOSED, IT IS TO TAKE AIR SAMPLES INSIDE THE WORKMEN'S HELMET AND SHIELD, OR BREATHING ZONE. REFERENCE: ANSI/ANS - F1.1.

VENTILATION: USE GENERAL VENTILATION, LOCAL EXHAUST AT THE TORCH TIP, 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.

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RESPIRATORY PROTECTION: USE NOISH 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 OF FILTER LENS. PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES TO SHIELD OTHERS.

PROTECTIVE CLOTHING: AS A MINIMUM, WEAR LEATHER GLOVES, ARM AND SHOULDER PROTECTORS, APRON, FACE SHIELD AND HARD HATS. REFERENCE: ANSI/Z49.1.

CLEANUP OF SPILLS: NOT APPLICABLE.

WASTE DISPOSAL: DISCARD ANY PRODUCTS, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

OXYGEN: 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.