MSDS Number: CLMTH
=== Responsible Party ===

Company Name: INWELD MFG CORP

Address:3962 PROTLAND ST

Box:40 City:COPLAY

Status Code:A

State:PA

ZIP:18037-0040

Country:US

Info Phone Num:610-261-1900

Emergency Phone Num:800-346-5368

CAGE:663

76

=== Contractor Identification === Company Name:BLACK AND CO Address:5351 W MINNESOTA ST

Box:UNKNOW
City:INDIANAPOLIS

State:IN ZIP:46241 Country:US

Phone:317-243-8676

Contract Num:SP0490-00-D-4063

CAGE:00WU8

Company Name: INWELD MFG CORP

Address:3962 PORTLAND ST

Box:40

City:COPLAY State:PA

ZIP:18037-0040 Country:US

Phone:610-261-1900

CAGE:66376

======= Composition/Information on Ingredients ========

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Minumum % Wt:65. Maxumum % Wt:85 OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3 (AS FE203)

Ingred Name: CELLULOSE

CAS:9004-34-6

RTECS #:FJ5691460

Minumum % Wt:.5

Maxumum % Wt:10.

OSHA PEL:NOT REGISTERED

ACGIH TLV:10 MG/M3

Ingred Name: MANGANESE

CAS:7439-96-5

RTECS #: OO9275000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:5 MG/M3

ACGIH TLV:1 MG/M3

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:5 MG/M3 (AS SI02)

ACGIH TLV:3 MG/M3 (AS SI02)

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR227

5000

Minumum % Wt:1.

Maxumum % Wt:15.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name: POTASSIUM TITANATE

CAS:12030-97-6

Minumum % Wt:0.

Maxumum % Wt:3.

OSHA PEL:NOT REGISTERED

ACGIH TLV:10 MG/M3

Ingred Name: CALCIUM CARBONATE

CAS:1317-65-3

RTECS #:EV9580000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:5 MG/M3 (AS CAO)

ACGIH TLV:10 MG/M3

Ingred Name: SODIUM TITANATE

CAS:12034-34-3

Minumum % Wt:0.

Maxumum % Wt:2.

**OSHA PEL:NOT REGISTERED** 

ACGIH TLV:10 MG/M3

#:OM4800000 Minumum % Wt:0. Maxumum % Wt:5. OSHA PEL:5 MG/M3 ACGIH TLV:10 MG/M3 (AS FE2O3)

Ingred Name: ALUMINUM OXIDE

CAS:1344-28-1 RTECS #:BD1200000 Minumum % Wt:0. Maxumum % Wt:2. OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name: SODIUM SILICATE

CAS:1344-09-8 Minumum % Wt:0. Maxumum % Wt:5.

**OSHA PEL:NOT REGISTERED** 

ACGIH TLV:5 MG/M3

Ingred Name: POTASSIUM SILICATE

CAS:1312-76-1 Minumum % Wt:0. Maxumum % Wt:5.

OSHA PEL:NOT REGISTERED

ACGIH TLV:5 MG/M3

Ingred Name: GRAPHITE

CAS:7782-42-5 RTECS #: MD9659600 Minumum % Wt:0.

Maxumum % Wt:0.

COLLA DEL MOT DE

OSHA PEL:NOT REGISTERED

ACGIH TLV:5 MG/M3

Ingred Name: SILICON DIOXIDE

CAS:7631-86-9 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:5 MG/M3 ACGIH TLV:3 MG/M3

Ingred Name: FELDSPAR

CAS:68476-25-5 Minumum % Wt:0. Maxumum % Wt:3.

OSHA PEL:NOT REGISTERED

ACGIH TLV:2 MG/M3

=========== Hazards Identification ==============

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SHORT TERM (ACUTE) OVEREXPOSURE TO

WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, AND DRYNESS OR IRRITATION OF THE NOSE, THROAT, OR EYES. LONG TERM (CHRONIC) OVEREXPOSURE TO WELDING FUMES MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG) AND IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTION. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Effects of Overexposure:DIZZINESS, NAUSEA, AND DRYNESS OR IRRITATION OF THE NOSE, THROAT, OR EYES.

Medical Cond Aggrava

ted by Exposure: AGGRAVATION OF PREEXISTING

RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

First Aid:EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. FOR SKIN CONTACT, REMOVE PRATICLES BY THOROUGHLY WASHING WITH SOAP AND WATER. FOR EYE CONTACT, FLUSH WITH WATER FOR AT LEAST 15 MINUT ES, GET MEDICAL ATTENTION. FOR INHALATION, REMOVE FROM EXPOSURE, GET MEDICAL ATTENTION IF EXP

ERIENCING BREATHING DIFFICULTY.

========== Fire Fighting Measures ===============

Fire Fighting Procedures: REFER TO AMERICAN NATIONAL STANDARD Z-49.1 FOR FIRE PREVENTION DURING THE USE OF WELDING PROCEDURES.

Unusual Fire/Explosion Hazard:THESE PRODUCTS AS SHIPPED ARE NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, AND NONREACTIVE. WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLES.

======== Accidental Release Measures ===========

Spi

Il Release Procedures: NOT APPLICABLE.

========== Handling and Storage ================

Handling and Storage Precautions:READ AND UNDERSTAND THE MANUFACTURES'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THIS PRODUCT. SEE AMERICAN NATIONAL STANDARD Z-49.1, SAFETY IN WELDING AND CUTTING, PUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BPX 35410, MIAMI, FL 33135 AND OSHA PUBLICATION 2206 (29 C.F.R. 1910), U.S.

====== Exposure Controls/Personal Protecti

- Respiratory Protection: USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIES RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.
- Ventilation: USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH, TO KEEP THE FUMES AND GSES BELOW THE TLV'S IN THE WORKER'S BREATHING ZONE AND THE GENERAL AREA.
- Protective Gloves:WELDERS GLOVES AND A PROTECTIVE FACE SHIELD.
- Eye Protection: WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS.
- Other Protective Equipment:PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES, IF NECESSAY, TO SHIELD OTHERS. WEAR HEAD, HAND, AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.
- Work Hygienic Practices:AT A MINIMUM (WELDER'S GLOVES, PROTECTIVE FACE SHIELD, ARM/SHOULDER PROTECTORS, HATS, AS WELL AS DARK SUBSTANTIAL CLOTHING). TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS & TO INSULATE HIMSELF.

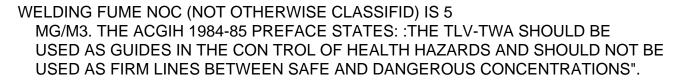
Supplemental Safety and Health

GENERAL LIMIT FOR

VENTILATION: TRAIN THE WELDING TO KEEP HIS HEAD OUT OF THE FUMES. EYE PROTECTION: AS A RULE OF THUMB, START WITH A SHADE WHICH IS TOO DARK TO SEE THE WELD ZONE. THEN GO TO THE NEXT LIGHTER SHADE WHICH GIVES SUFFICIENT VIEW OF WELD ZONE. PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS.

======= Physical/Chemical Properties ===============

HCC:N1
======== Stability and Reactivity Data =========
GASEOUS REAC TION MAY INCLUDE CARBON MONOXIDE AND CARBON DIOXIDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY THE RADIATION FROM THE ARC. Hazardous Decomposition Products:REASONABLY EXPECTED FUME OR GAS CONSTITUENTS OF THIS PRODUCT COULD INCLUDE PRIMARILY OXIDES OF IRON; SECONDARILY COMPLEX OXIDES OF MANGANESE, SILICON, AND ALUMINUM.
========= Toxicological Information ==========
Toxicological Information:THRESHOLD LIMIT VALUE: THE ACGIH RECOMMENDED



====== Disposal Considerations ==========

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCE PTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

======== Regulatory Information ============

SARA Title III Information:\*MANGANESE AND ALUMINUM OXIDE: THE INGREDIENTS MARKED WITH AN ASTERISK ARE COVERED UNDER THE REPORTING EQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372.

Federal Regulatory Information:IMPORTANT: THE MATERIALS LISTED ARE WHAT IS REASONABLY E

XPECTED TO EXIST IN THE FUMES WHEN PRODUCT IS USED IN WELDING. THE TERM " HAZARDOUS" SHOULD BE INTERPRETED AS A TERM REQUIRED AND DEFINED IN OSH A HAZARD COMMUNICATION STANDARD (29 CFR 19100.1200) AND IT DOES NOT NECESSARILY IMPLY THE EXISTENCE OF ANY HAZARD.

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