

TRI-MARK,INC. -- TM6010 I.P.,6011,6012,6013,7014,7024 -- 3439-00-262-2670

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Product Identification
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Product ID:TM6010 I.P.,6011,6012,6013,7014,7024

MSDS Date:06/09/1987

FSC:3439

NIIN:00-262-2670

MSDS Number: BJPDD

=== Responsible Party ===

Company Name:TRI-MARK,INC.

Address:8585 INDUSTRY DRIVE

City:PIQUA

State:OH

ZIP:45356

Country:US

Info Phone Num:513-773-2010

Emergency Phone Num:513-77

3-2010

CAGE:KO942

=== Contractor Identification ===

Company Name:TRI-MARK INC

Address:8585 INDUSTRY PARK DRIVE

Box:City:PIQUA

State:OH

ZIP:45356-9511

Country:US

Phone:800-543-8934

CAGE:1X069

Company Name:TRI-MARK,INC.

Address:8585 INDUSTRY DRIVE

Box:City:PIQUA

State:OH

ZIP:45356

Country:US

Phone:513-773-2010

CAGE:KO942

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Composition/Information on Ingredients
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Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits:5 MG/M3

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Other REC Limits:15 MG/M3
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MAGNESIUM OXIDE
CAS:1309-48-4
RTECS #:OM3850000
Other REC Limits:15 MG/M3
OSHA PEL:15 MG/M3 PARTICULATE
ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:POTASSIUM SILICATE
CAS:1312-76-1
Other REC Limits:NONE SPECIFIED

Ingred Name:
SODIUM SILICATE
CAS:1344-09-8
Other REC Limits:NONE SPECIFIED

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES,
GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA,
FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN
SENSITIVITY MAY ALSO BE NOTED. LONG TERM EXPOSURE TO
FUMES/GASES/DUST MAY CAUSE PULMONARY IRRITATION OR PNEUMOCONIOSIS;
& SIDEROSIS FROM IRON FUMES.
Explanation of Carcinogenicity:RESPIRATORY CANCER FROM WELDING IS
UNCONFIRMED.
Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN
DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR
IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE
NOTED. WATERY EYES, HEADACHE, BREATHING DIFFICULTY, FREQUENT
COUGHING AND/OR CHEST PAINS MAY OCCUR

CUR FROM ACUTE EXPOSURE. TOXIC
GASES CAN BE FATAL.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY
FUNCTION OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY IRRITANTS
CONTAINED IN WELDING FUMES.

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First Aid Measures =====

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL
FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM
EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF

BREATHING IS D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL
RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE.
EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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Fire Fighting Measures =====

Extinguishing Media:NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE
TO THE SURROUNDING FIRE.

Fire Fighting Procedures:TO EXTINGUISH A METAL POWDER FIRE USE DRY
SAND, OR CLASS D FIRE EXTINGUISHERS. USE WATER SPR
AY TO COOL NEARBY
CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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Accidental Release Measures =====

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES
AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN
FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID
INHALATION AND SKIN EXPOSURE.

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Handling and Storage =====

Handling and Storage Precautions:WEAR GLOVES AND FLAME RETARDANT
CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO
RADIATION WHEN HOT CUTTING OR WELDING.

Other Precautions:PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN
ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION
PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS
LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.

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=== Exposure Controls/Personal Protection =====

Respiratory Protection:USE WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS.

Ventilation:USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE

Protective Gloves:FLAMEPROOF G AUNTLE GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment:FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING

WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

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

HCC:N1

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

MINERAL ACIDS AND STRONG OXIDIZING AGENTS

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:

WELDING/CUTTING OPERATIONS MAY INCLUDE

ELEMENTAL METALS, OXIDES OF THE METALS, FUMES/GASES & ELECTROMAGNETIC RADIATION.

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

Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS

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