View NSN Online: https://aerobasegroup.com/nsn/3439-00-277-7550

R & D METALS & CHEMICALS, INC -- 307 STAINLESS STEEL ALLOYS -- 3439-00-277-7550

======== Product Identification ============

Product ID:307 STAINLESS STEEL ALLOYS

MSDS Date:11/16/1994

FSC:3439

NIIN:00-277-7550 Status Code:A

MSDS Number: CLQJZ === Responsible Party ===

Company Name: R & D METALS & CHEMICALS, INC

Address:201C PERIMETER PARK

Box:22533

City:KNOXVILLE

State:TN

ZIP:37922-2233 Country:US

Info Phon

e Num:423-531-6065 / FAX: 423-531-2044 Emergency Phone Num:800-424-9300 Chemtrec Ind/Phone:(800)424-9300

CAGE:56406

=== Contractor Identification ===

Company Name: R & D METALS & CHEMICALS, INC

Address:201C PERIMETER PARK

Box:22533

City:KNOXVILLE

State:TN

ZIP:37922-2233 Country:US

Phone: 423-531-6065 / FAX: 423-531-2044

Contract Num:SP0490-96-D-41690

CAGE:56406

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

Ingred Name:NICKEL CAS:7440-02-0

RTECS #:QR5950000

= Wt:10.7 OSHA P EL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:CHROMIUM

CAS:7440-47-3

RTECS #:GB4200000

= Wt:21.5

OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:MANGANESE

CAS:7439-96-5

RTECS #: OO9275000

= Wt:4.8

OSHA PEL:C5 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:IRON CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: BALANCE

OSHA PEL:NONE ACGIH TLV:NONE

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

Health Hazards Acute a

nd Chronic:ACUTE: 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, EYES. SKIN SENSITIVITY MAY ALSO BE NOTE D. ACUTE EXPOSURE CAN RESULT IN THE SAME SYMPTOMS EXCEPT TO A GREATER DEGREE AS WELL AS WATERY EYES, HEADACHE, BRATHING DIFFICULTY, FREQUENT COUGHING AND/OR CHEST PAINS. SOME GASES MAY CAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL. C

HRONIC: MAY RESULT IN

NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMONICOCIS AND OTHER LUNG DISORDERS.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE CONSIDERED POSSIBLE CARCINOGENS UNDER OSHA (29CFR 1910-1200). "SEE TOXICOLOGY" Effects of Overexposure:***THIS PRODUCT POSES NO HEALTH HAZARD AS SHIPPED*** BUT MAY POSE A HEALTH HAZARD DURING USE. ELECTRIC ARC WELDING RAYS CAN INJURE EYES & BURN SKIN. DUST, FUMES AND GASES CAN BE DANGEROUS TO YOUR HEAL TH. LUNG DAMAGE MAY

| OVEREXPOSURE. |
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| Medical Cond Aggravated by Exposure:SOME WORKERS MAY BE AFFECTED BY A PREEXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES. |
| ====================================== |
| First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT ADMINISTER OXYGE N. |
| IF NOT BR EATHING BEGIN ARTIFICIAL RESPIRATION. IF NO DETECTABLE PULSE BEGIN EXTERNAL HEART MASSAGE. SKIN: WASH AFFECTED AREA WITH SOAP AND WATER. EYES: FLUSH WITH LARGE AMOUNTS OF FRESH AIR FOR AT LEAST 15 MIN UTES. INGESTION: SEEK MEDICAL ATTENTION. IN ALL CASES SEEK MEDICAL ATTENTION FOR FIRST AID. |
| ====================================== |
| Flash Point:NONFLAMMABLE Unusual Fire/Explosion Hazard:NONFLAMMABLE, HOWEVER, ARCS, SPARKS AND MOLT EN METAL CAN IGNITE FLAMMABLES AND COMBUSTIBLES OR CAUSE EXPLOSIONS. |
| ======== Accidental Release Measures ========== |
| Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DEPARTMENT OF TRANSPORTATION APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID I NHALATION AND SKIN EXPOSURE. |
| ====== Exposure Controls/Personal Protection ======== |
| Respiratory Protecti |

on:USE WELD FUME RESPIRATOR OR AIR SUPPLIED

RESULT FROM

RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. MONITOR THE AIR QUALITY INSIDE THE WELDER'S HELMET, IF WORN, AND/OR THE WORKER'S BREATHING ZONE TO DETERMINE IF A RESPIRATOR IS REQUIRED AND THE TYPE NEEDED.

Ventilation: USE ENOUGH VENTILATION TO KEEP DUST, FUMES AND GASES FROM WORKER'S BREATHING ZONE AND GENERAL USE. KE

| EP EXPOSURE BELOW |
|--|
| LIMITS. |
| Protective Gloves:WEAR GLOVES WHEN CUTTING, GRINDING OR WELDING. |
| Eye Protection: USE OSHA APPROVED GOGGLES, GLASSES AND/OR FACE SHIELD. |
| Other Protective Equipment:WEAR GLOVES & FLAME RETARDANT CLOTHING WHEN |
| CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN |
| HOT CUTTING OR WELDING. PROVIDE PROTECTIVE SCREENS TO SHIELD |
| OTHERS. |
| Manie II veiania Desationa DO NOT EVDOCE OVINITO DADIATIONI MUENINOT |

Work Hygienic Practices: DO NOT EXPOSE SKIN TO RADIATION WHEN NOT CUTTING OR WELDING.

Supplemental Safety and Hea

RESPIRATORY PROTECTION: USE ONLY NIOSH APPROVED RESPIRATORS. EYE PROTECTION: USE OSHA APPROVED GOGGLES, GLASSES &/OR FACE SHIELD WHEN CUTTING, GRINDING OR WELDING. IN ADDITION, WHEN HOT CUTTING OR WEL DING, WEAR WELDING HELMET OR FACE SHIELD WITH FILTER LENS. SELECT WELDING LENS SHADE FROM AWS PUBLICATION F2.2.

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| HCC:N1 Appearance and Odor:COVERED WELDING ELECTRODES ARE SOLID WIRE WITH A FLUX COATING. |
| = ========= Stability and Reactivity Data ================================== |
| Hazardous Decomposition Products:GASEOUS REACTION PRODUCTS MAY INCLUDE CARBON MONOXIDE, OZONE AND NITROGEN OXIDES. CHLORINATED SOLVENTS MAY BE DECOMPOSED INTO TOXIC GASES SUCH AS PHOSGENE. |
| =========== Toxicological Information =========== |

Toxicological Information:THE STUDIES FORMING THE BASIS FOR THIS CLASSIFICATION WERE FROM OPERATIONS OTHER THAN WELDING OF CHROMIUM OR NICKEL. THERE IS CONSID

ERABLE CONTROVERSY ON THE EXTENT OF THE RESPIRATORY CANCER PROBLEMS DUE TO NICKEL & CHROMIUM. IN ADDITION A SMALL AMOUNT OF SILICA IS ALSO PRESENT & IT IS A PROBABLE CARCINOGEN. NEVERTHELESS EXPOSURES MUST BE MAINTAINED BELOW THE LEVELS SPECIFIED IN THE INGREDIENTS SE CTION. *THE LIMIT FOR WELDING FUMES NOT OTHERWISE CLASSIFIED IS 5 MG/M3. SOME ELEMENTS OR COMPONENTS WILL EXCEED THEIR PELS/TLVS BEFORE THE TOTAL FUMES EXCEED 5 MG/M3.

====== Disposal Co

| nsiderations | |
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Waste Disposal Methods:DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

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

SARA Title III Information:WELDING PRODUCTS LISTED IN THE INGREDIENTS
SECTION OF THIS MATERIAL SAFETY DATA SHEET CONTAIN TOXIC CHEMICALS
SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III
OF THE SUPERFUND AMENDME NTS AND REAUTHORIZATION ACT OF 1986 AND
40CFR PART

372 OF THE FEDERAL REGISTER. REFER TO THE FOLLOWING SOURCE FOR ADDITIONAL IMPORTANT INFORMATION: ANSI Z49.1 THE AMERICAN WELDING SOCIETY. P.O. BOX 35 1040. MIAMI, FL 33135. DSHA (29CFR 1910) U.S. DEPARTMENT OF LABOR. WASHINGTION, DC 20210.

============= Other Information =============================

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