View NSN Online: https://aerobasegroup.com/nsn/3439-01-169-4790

R & D METALS & CHEMICALS INC -- 1100, 4043, 5356, 5556, 5554 -- 3439-01-169-4790

Product ID:1100, 4043, 5356, 5556, 5554

MSDS Date:01/22/1991

FSC:3439

NIIN:01-169-4790 Status Code:A

MSDS Number: CJDJH === Responsible Party ===

Company Name: R & D METALS & CHEMICALS INC

Address:201 PERIMETER PK SUITE C

Box:22533

City:KNOXVILLE

State:TN

ZIP:37922-2233 Country:US

In

fo Phone Num:615-531-6065

Emergency Phone Num:423-531-6065

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: SP0400-98-V-2771

CAGE:56406

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

Ingred Name: ALUMINIUM

CAS:7429-90-5

RTECS #:BD0330000 OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name: COPPER

CAS

:7440-50-8 RTECS #:GL5325000 OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON CAS:1309-37-1

Code:F

OSHA PEL:10 MG/M3

ACGIH TLV:5 MG/M3;2 PPM

Ingred Name:MAGNESIUM

CAS:1309-48-4

Code:F

OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name: MANGANESE

CAS:7439-96-5

RTECS #:OO9275000 OSHA PEL:C5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:TIN (AS INORGANIC COMPOUND)

CAS:7440-3

1-5

RTECS #:XP7320000 ACGIH TLV:2 MG/M3

Ingred Name:ZINC CAS:1314-13-2

Code:F

OSHA PEL:15 MG/M3

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ELECTRIC ARC-WELDING MAY CREATE ONE OR
MORE OF THE FOLLOWING HEALTH HAZARDS:FUMES & GASES CAN BE DANGEROUS
TO YOUR HEALTH.ARC RAYS CAN INJURE EYES & BURN SKIN.ELECTRIC SHOCK
CAN

KILL.

Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY OF INGREDIENTS ARE NO.

Effects of Overexposure:SHORT-TERM OVEREXPO TO WELDING FUMES MAY RESULT IN DISCOMFT LIKE DIZZ,NAU,DRDYNESS, IRRIT OF NOSE/THROAT/EYES,TIGHTNESS IN CHEST,FEVER,ALLERGIC RXS.LONG-TERM OVEREXPO(CHRONIC) TOWELD FUMES MAY LEAD TO SIDEROSIS(IRON DEPO IN LUNGS),BELIEVED BY SOME INVESTIGATORS TO AFFECT PULM FUNCTION.CHRONIUM CMPDS REQUIRE TO BE CONSIDERED CARC BY OSHA.

	======= F
irst Aid Measures	

First Aid:REMOVE TO FRESH AIR,OBTAIN MEDICAL ATTENTION.EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.

	Fire Fighting Measures	
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Extinguishing Media:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLES. REFER TO AM. NATIONS STD. Z49.1 FOR FIRE PREVENTION DURING USE OF WELDING & ALLIED PROCEDURES.

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

- g and Storage Precautions:READ & UNDERSTAND MFG'S INSTRUCTIONS & PRECAUT LABEL ON PROD.ONE RECOMMENDED WAY TO DETERMINE COMPO & QUANT OF FUMES/GAS TO WHICH WORKERS EXPO IS TAKE AIR SMPL FRM INSIDE WELDERS HELMET IF WORN OR BRE ATH ZONE.SEE AWS F1.1 & F1.2-1985 FRM AMER WELD SOC.SEE PUBLICATION:"FUMES & GAS IN WLED ENVIRO".
- Other Precautions:CONTD FRM OTHER:REASONABLE EXPECTED FUME:PRIMARILY IRON OXIDES,2ND COMPLEX MN,SI,NI,CR, MO,V OXIDES.PRESENT OSHA PERM EXPO LIMIT
- S FOR HEXAVALENT CR=0.05MG/M,NI=1MG/M,RESULT IN SIGNIF RED FRM 5MG/M GE N FUME LEVEL.GAS RX PROD:CO,CO2.OZONE & NI OXIDES FORM BY RADIATION FRMARC + SHIELDING GASES(ARGON,H E)WHEN USED.

	Exposure	Controls/Personal	Protection	
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Respiratory Protection: USE RESPIRABLE FUMES RESPIRATORY OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOC EXHAU OR VENTI DOESNT KEEP EXPO BELOW RECOMMENDED EXPO LIMIT. USE EXHAU SYST TO CLEAR WELDING FUM

ES.MAKE SURE THAT INHAL AIR DOESNT CONTAIN FUME CONSTITUENTS ABOVE PERMISSIBLE EXPO LEVELS. Ventilation: USE ENOUGH VENTI, LOC EXHAU @ARC, OR BOTH, TO KEEP FUMES/GAS FRM WORKER'S BREATH ZONE & GEN AREA.TRAIN WELDER TO KEEP HEAD OUT OF FUMES. Protective Gloves: HAND PROTECTION FRM RADIATION, SPARKS, ELECTRICAL SHOCK.(ANSI Z49.1)(SUPPLE) Eye Protection: WEAR HELMET, USE FACESHIELD W/FILT LENS. PROV PROT SCREENS & FLASH GOGG (SUPPLE) Other Protective Equipment: WEAR HEAD/BODY PROT-HELPS PR **EVENT INJURY FRM** RADIATION, SPARK, ELECTRICAL SHOCK. (ANSI Z49-1) MIN INCLUDE PROT FACESHIELD, ARM PROTECTORS, APRONS, HATS, SHOULDER PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTH. Work Hygienic Practices:TRAIN WELDER NOT TO TOUCH LIVE ELCTR PARTS & TO INSULATE HIMSELF FRM WORK & GROUND. OTHER PRECAUTON WELD/CUT SEE AMER STD 249-1-1983(SAF IN WELD/CUT)&WELD HNDBK VOL1 CHAPT 9 BOTH FRM AERM WELD SOC. Supplemental Safety and Health EYE PROT: IF NECESSARY, TO SHIELD OTHERS. AS RULE OF T **HUMB START W/SHADE** THATS TOO DARK TO SEE WELDS ZONE. THEN GO NEXT LIGHTER SHADE WHICH GIVES SUFFICIENT VIEW OF WELD ZONE. GLOVES:MIN INCLUDE WELDERS G LOVES. ======== Physical/Chemical Properties =========== HCC:N1 ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:NO NONE. Stability Condition to Avoid: NONE UNLESS OTHERWISE SPECIFIED. Hazardous Decomposition Products: COMPO/QUAL OF WELD FUMES/GAS DEPEND

UPON METAL BEING WELD, PROCESS, PROCEDURE, ELECTRODE USED. OTHER CONDITION ALSO INFLUENCE: COATING OF METAL BEING WELDED (PAINT, PLANTING, GALVAN), #OF WELDERS & (OTHER INFO)

	Disposal (Considerations	
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Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRO.DISCARD ANY PRODUCT RESIDUE, DISPO CNTNR OR LINER IN ENVIRO ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FED/STATE/LOC REGS.

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

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