

**CARPENTER TECHNOLOGY CORPORATION -- NICKEL COPPER ALLOY 400
CF SR QQ-N-281D -- 9530-00-250-8643**

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

Product ID:NICKEL COPPER ALLOY 400 CF SR QQ-N-281D

MSDS Date:01/01/1987

FSC:9530

NIIN:00-250-8643

MSDS Number: BDNVB

==== Responsible Party ===

Company Name:CARPENTER TECHNOLOGY CORPORATION

Emergency Phone Num:(215) 371-2000

CAGE:71321

==== Contractor Identification ===

Company Name:CARPENTER TECHNOLOGY CORP

Address:101 W BERN ST

Box:14662

City:READING

State:PA

ZIP:19612-4662

Country:US

Phone:610-208-2134 / 610-208-2457/2457

CAGE:71321

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

Ingred Name:IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000

Fraction by Wt: 2.5%

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5 MG/M3(FE), B2; 9293

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 65.5%

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 2.0%

OSHA PEL:(C) 5 MG/M3 DUST

ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000

Fraction by Wt: 0.50%

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000
Fraction by Wt: 29.0%
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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

Effects of Overexposure:NONE CONSIDERED HAZ IN SOLID STATE; HOWEVER, METALLIC FUMES/DUST MAY CAUSE RESP, EYES, LUNGS PROBLEMS.

===== First Aid Measures =====

First Aid: INHAL:MOVE TO FRESH AIR. GET MED ATTN; SKIN: WASH W/WATER & MILD DETERGENT. CONSULT A PHYSICIAN; EYES: FLUSH WITH PLENTY OF WATER. GET MED HELP; INGESTION: WHILE INGESTION OF LG ENOUGH QTY TO CAUSE HEALTH EFFE CTS IS UNLIKELY, CONSULT A DR IF IT OCCURS.

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

Flash Point: NONE
Extinguishing Media: EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE
Fire Fighting Procedures: WEAR SELF-CNTD BRTHG, APP H*20 SPRAY TO COOL CONTR.
Unusual Fire/Explosion Hazard: NONE NOTED BY MANUFACTURER.

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

Spill Release Procedures: PRODUCT IS SOLID METAL. NO POTENTIAL FOR SPILL OR LEAK. HOWEVER, IF SMALL METALLIC PIECES ARE SPILLED, COLLECT THOSE & REUSE.

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

Handling and Storage Precautions: STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE. AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED

Other Precautions: FERROCHROME ALLOYS HAVE BEEN ASSOCIATED W/LUNG CHGS. CHROMIUM, COBALT-CHROMIUM ALLOYS, AND NICKEL HAVE BEEN IDENTIFIED AS CARCINOGEN. AVOID BREATHING DUST/FUMES DURING GRINDING/WELDING PROCESSES.

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

Respiratory Protection: IF FUMES OR DUST IS RELEASED, USE NIOSH APPRVD RESP.

Ventilation: FOR DUST/FUME, USE LOCAL & GENERAL VENTILATION TO KEEP 7.5

Solubility in Water: NEGIGIBLE

Appearance and Odor: SOLID METAL, ODORLESS

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

Stability Indicator/Materials to Avoid: YES

NONE

Stability Condition to Avoid: NOT KNOWN

Hazardous Decomposition Products: NONE EXPECTED

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

Waste Disposal Methods: IN THE EVENT OF METAL OR METAL PIECES ARE TO BE DISPOSED, CONSULT LOCAL AUTHORITIES FOR DISPOSAL OR SHIP TO RECYCLING FACILITIES.

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