## CARPENTER TECHNOLOGY CORPORATION -- TYPE 347 ANL RT, QQ-S-763D -- 9510-00-554-9968

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

Product ID:TYPE 347 ANL RT, QQ-S-763D

MSDS Date:01/01/1987

FSC:9510

NIIN:00-554-9968 MSDS Number: BFFFX

=== 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

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

CAGE:71321

Country: US

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

Ingred Name:IRON OXIDE

CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: 68.0%
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: 11.0% OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5
RTECS #:009275000
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: 0.75%
OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3; DUST 9293

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 18.0% OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9192

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

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

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

Appearance and Odor: SOLID METAL, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES NONE
Stability Condition to Avoid:NOT KNOWN

======= 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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