

CARPENTER TECHNOLOGY CORPORATION -- TYPE 304 HF ANL PKL, QQ-S-763D --
9510-00-189-0600

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

Product ID:TYPE 304 HF ANL PKL, QQ-S-763D

MSDS Date:01/01/1987

FSC:9510

NIIN:00-189-0600

MSDS Number: BDHQQ

=== Responsible Party ===

Company Name:CARPENTER TECHNOLOGY CORPORATION

Emergency Phone Num:(215) 371-2000

CAGE:71321

=== Contractor Identification ===

Company Name:CARPE
NTER 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

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

Ingred Name:IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000

Fraction by Wt: 68.5%

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: 9.0%

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:MANGANES

E (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: 0.75%
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: 19.0%
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

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

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===== 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.

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===== 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.

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===== 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.

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Handling and Storage
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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.

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Exposure Controls/Personal Protection
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Respiratory Protection:IF FUMES OR DUST IS RELEASED, USE NIOSH APPROVED RESP.

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

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SOLID METAL, ODORLESS

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES
NONE

Stability Condition to Avoid:NOT KNOWN

Hazardous Decomposition Products:NONE EXPECTED

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Disposal Considerations
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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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