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ESCO CORP -- STAINLESS STEEL 2XX TO 5XX SERIES -- 4710-00-488-1133

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

Product ID:STAINLESS STEEL 2XX TO 5XX SERIES

MSDS Date:03/15/1988

FSC:4710

NIIN:00-488-1133

MSDS Number: BPVNJ === Responsible Party === Company Name:ESCO CORP Address:2141 NW 25TH AVE

Box:10123

City:PORTLAND

State:OR ZIP:97210 Country:US

Info Phone Num:503-228-2141 Emergency Phone Num:503-228-21

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CAGE:72113

=== Contractor Identification === Company Name:ESCO CORP Address:2141 NW 25TH AVE

Box:10123

City:PORTLAND

State:OR ZIP:97210 Country:US

Phone:503-228-2141

CAGE:72113

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

Ingred Name:IRON CAS:7439-89-6

RTECS #:NO4565500 Fraction by Wt: 0-90%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name: CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 0-30%

Other REC L

imits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9293

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

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 0-999.5%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9293

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 0-15%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000

Fracti

on by Wt: 0-3%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name: MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000 Fraction by Wt: 0-5%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name: SELENIUM (SARA III)

CAS:7782-49-2

RTECS #:VS7700000 Fraction by Wt: 0-1%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.2 MG/M3

ACGIH TLV:0.2 MG/M3; 9293

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

Ingred Name: COBALT (SARA III)

CAS:

7440-48-4

RTECS #:GF8750000 Fraction by Wt: 0-1%

Other REC Limits: NONE RECOMMENDED

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: 0-5%

Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9293

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:TITANIUM, METAL

CAS:7440-32-6

RTECS #:XR1700000 Fraction by Wt: 0-6%

Other REC Limits: NONE RECOMMENDED

Ingred Name: ALUMINUM (

SARA III)

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 0-4.25%

Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME

ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name: VANADIUM (SARA III)

CAS:7440-62-2

RTECS #:YW1355000 Fraction by Wt: 0-1.1%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C,0.5 MG V2O5/M3 RD ACGIH TLV:0.05 MG V205/M3;9293

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000 Fraction by Wt: 0-2%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3/ 10 STEL ACGIH TLV:5 MG/M3/10 STE

L;9293
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:IN THE NATURAL STATE, STEEL PRODUCT DO NO PRESENT INHALATION, INGESTION OR CONTACT HEALTH HAZARDS. HOWEVER, WELDING, BURNING, GRINDING, BRAZING, SAWING OR MACHINING CAN RESULT IN THE GENERATION OF FUM ES & DUST PARTICULATES. IRRITATION OF EYES, NOSE, & THROAT MAY RESULT FROM EXCESSIVE EXPOSURE TO METAL FUMES & DUST.
Explanation of Carcinogenicity:CHROMIUM, VANADIUM AND NICKEL ARE CONSIDERED AS CARCINOGEN OR POTENTIAL HUMAN CARCINOGENS. Effects of Overexposure:METAL FUME FEVER MAY-A METALLIC TASTE IN MOUTH, IRRITATION AND DRYNESS OF MUCOUS MEMBRANES, FEVER AND CHILLS USUALLY LASTING 12 TO 48 HOURS ARE TYPICAL SYMPTOMS COMMONLY ASSOCIATED WITH METAL FUME FEV ER.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.
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First Aid:INHALATION-IF IRRITATION OR PULMONARY SYMPTOMS DEVELOP, CONSULT A PHYSICIAN. EYE/SKIN-IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN. INGESTION-IF CONSUMED WATER CONTAINING METAL PARTICULES CONSULT A PH YSICAIN.
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Extinguishing Media:NO FIRE OR EXPLOSION HAZARD.

Respirato

ry Protection:USE NIOSH APPROVED PARTICULATE AND/OR ACID FUME RESPIRATOR IF THE CONCENTRATION OF ACTUAL OR POTENTIAL AIRBORNE CONTAMINANTS EXCEEDS, OR IS ANTICIPATED TO EXCEED, THE EXPOSURE LIMITS.

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

Ventilation: FUMES & WASTE GASES SHOULD BE REMOVED BY LOCAL EXHAUST VENTILATION. IF NOT ADEQUATE, USE A HIGH LEVEL POWER VENTILATION.

Protective Gloves: USE PROTECTIVE GLOVES

Eye Protection: USE EYE PROTECTION

Other Protective Equipment: USE SAFETY GOGGLES, GLASSES, BOOTS, APRONS, **HELM**

Stability Indicator/Materials to Avoid:YES NONE
Stability Condition to Avoid:NONE

Hazardous Decomposition Products:FUMES AND DUSTS OF IRON OXIDE AND MANGANESE.

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

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