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JOINT OIL ANALYSIS PROGRAM OFFICE -- MIL-L-6082 GRADE 1100 (BASE OIL) D12-50 6650-00-179-5143

Product ID:MIL-L-6082 GRADE 1100 (BASE OIL) D12-50

MSDS Date:03/16/1994

FSC:6650

NIIN:00-179-5143

MSDS Number: CCHDQ === Responsible Party ===

Company Name: JOINT OIL ANALYSIS PROGRAM OFFICE

Address:296 FARRAR RD STE B

City:PENSACOLA

State:FL

ZIP:32508-5150

Country:US

Info Phone Num:904-452-3191

Emergency Phone Num:904-452-3191

CAGE:JOINT

=== Contractor Identification ===

Company Name: JOINT OIL ANALYSIS PROGRAM OFFICE

Address:296 FARRAR RD STE B

City:PENSACOLA

State:FL

ZIP:32508-5150

Country:US

Phone:904-452-3191

CAGE:JOINT

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

Ingred Name:SILVER *96-2*

CAS:7440-22-4

RTECS #:VW3500000 OSHA PEL:0.01 MG/CUM ACGIH TLV:0.1 MG/CUM

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

Ingred Name: ALUMINUM *96-2*

CAS:

7429-90-5

RTECS #:BD0330000 OSHA PEL:15 MG/CUM

ACGIH TLV:10 MG/CUM (DUST)

Ingred Name:BORON *96-2*

CAS:7440-42-8

RTECS #:ED7350000

Ingred Name: COPPER (DUST & MIST), BRONZE POWDER *96-2*

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits:1 MG(CU)/M3 (DUST) OSHA PEL:0.1 MG(CU)/M3 (FUME) ACGIH TLV:0.2 MG/M3 (FUME)

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

Ingred Name: CHROMIUM METAL, CHROMIUM, CHROME (CARCINOGEN BY NTP; IARC

GROUP 3) *96-2*

CAS:7440-47-3

RTECS #:GB4200000

ACGIH TLV:

0.5 MG/CUM

EPA Rot Oty:

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

Ingred Name:IRON *96-2*

CAS:7439-89-6

RTECS #:NO4565500

Ingred Name:MAGNESIUM

CAS:7439-95-4

RTECS #:OM2100000

Ingred Name:NICKEL (SUSPECTED ANIMAL/HUMAN CARCINOGEN BY IARC GROUP 2B,

SUSPECTED CARCINOGEN BY NTP) *96-2*

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits: 1 MG/CUM

OSHA PEL:1 MG/CUM

ACGIH TLV:0.05 MG/CUM IC

Ingred Name:SODIUM

CAS:15307-79-6

RTECS #:AG6310000

Ingred Name:LEAD, INORGANIC LEAD (IARC CARC GROUP 2B) *96-2*

CAS:7

439-92-1 RTECS #:OF7525000 ACGIH TLV:0.15 MG/CUM

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

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000 ACGIH TLV:10 MG/CUM

Ingred Name:TIN *96-2*

CAS:7440-31-5

RTECS #:XP7320000 OSHA PEL:2 MG/CUM ACGIH TLV:2.0 MG/CUM

Ingred Name:TITANIUM, DRY POWDER *96-2*

CAS:7440-32-6

RTECS #:XR1700000

Ingred Name:ZINC

CAS:7440-66-6

RTECS #:ZG8600000 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

DOT RPI QIY: 1000 LBS

Ingred Name: MANGANESE *96-2*

CAS:7439-96-5

RTECS #:OO9275000 OSHA PEL:5 MG/C

UM

ACGIH TLV:5 MG/CUM (DUST)

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

LD50 LC50 Mixture:ORAL LD50(RAT): 29,000 MG/KG Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Health Hazards Acute and Chronic:THIS PRODUCT MAY BE IRRITATING TO THE

EYES & MAY CAUSE SLIGHT SKIN IRRITATION. Explanation of Carcinogenicity: SEE INGREDIENTS.

Effects of Overexposure:THIS PRODUCT MAY BE IRRITATING TO THE EYES & MAY CA

USE SLIGHT SKIN IRRITATION.
======================================
First Aid:INHALATION: REMOVE FROM EXPOSURE. EYES: WASH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP & WATER. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.
======================================
Flash Point Method:COC Flash Point:420F Extinguishing Media:CO2, DRY CHEMICAL, FOAM Fire Fighting Procedures:NONE Unusual Fire/Explosion Haz ard:NONE
======== Accidental Release Measures =========
Spill Release Procedures:TREAT AS AN OIL SPILL. CLEAN W/TOWEL/RAG. DISPOSE OF RAG IN TRASH. DON'T STORE W/OXIDIZERS. FLOOR MAY BE SLIPPERY. DETERGENT WASH MAY BE REQUIRED.
========== Handling and Storage ============
Handling and Storage Precautions: USE NORMAL GOOD HOUSEKEEPING PROCEDURES.
====== Exposure Controls/Personal Protection ========
Respiratory Protection: NOT NORMALLY NEEDED UNLESS OIL MIST OCCURS THEN USE DUST/MIST CARTRIDGE. Ventilation:EXHAUST SYSTEM SHOULD BE IN PROPER WORKING ORDER TO FURNISH NORMAL WORKPLACE VENTILATION. Protective Gloves:RUBBER Eye Protection:SAFETY GLASSES Work Hygienic Practices:USE NORMAL GOOD HOUSEKEEPING PROCEDURES. Supplemental Safety and Health
======== Physical/Chemical Properties =========
Vapor Pres:0 Spec Gravity:0.9119 Solvitility in Western NCOLUBLE

Solubility in Water:INSOLUBLE Appearance and Odor:GOLDEN BROWN

COLOR W/CHARACTERISTIC ODOR OF LUBRICATING OIL

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS

Hazardous Decomposition Products:PARTIALLY BURNED HYDROCARBONS, METAL OXIDES

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

Waste Disposal Methods:SMALL: RESIDUES OF THESE PRODUCTS MAY BE DISCARDED IN TRASH. MATERIAL MAY BE DISPOSED OF AS WASTE OIL IN $^\Delta$

CCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

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