

JOINT OIL ANALYSIS PROGRAM OFFICE -- MIL-L-6082 GRADE 1100 (BASE OIL) D12-300 --  
6650-00-179-5141

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

Product ID:MIL-L-6082 GRADE 1100 (BASE OIL) D12-300

MSDS Date:03/16/1994

FSC:6650

NIIN:00-179-5141

MSDS Number: CCHDN

=== Responsible Party ===

Company Name:JOINT OIL ANALYSIS PROGRAM OFFICE

Address:296 FARRAR RD STE B

City:PENSACOLA

State:FL

ZIP:32508-5150

Country:U

S

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 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:

7439-92-1  
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

Ingred Name:MANGANESE \*96-2\*  
CAS:7439-96-5  
RTECS #:OO9275000  
OSHA PEL:5 MG/  
CUM  
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  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA: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 C

AUSE SLIGHT SKIN IRRITATION.

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

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.

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

Flash Point Method:COC  
Flash Point:420F  
Extinguishing Media:CO2, DRY CHEMICAL, FOAM  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard: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  
Solubility in Water:INSOLUBLE  
Appearance and Odor:GOLDEN BROW

N 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

ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.