A-9 ALUMINUM CUTTING FLUID

MANUFACTURER'S NAME
Relton Corporation

PRODUCT NAME OR NUMBER
A-9® ALUMINUM CUTTING FLUID

EMERGENCY TELEPHONE NO
Chemtrec - (800) 424-9300
Non-Emergency Ph. No. (323) 681-2551 (800) 423-1505

ADDRESS (Number, Street, City, State, and Zip Code)
317 Rolyn Place, Arcadia, CA 91007-2838

HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME (49 CFR 172.101)
NA

HAZARD CLASS (49 CFR 172.101)
NA

CHEMICAL FAMILY
Mixture: predominately hydrocarbon base with bland additives.

TLV PEL STEL C.A.S. NO. %

Mineral Oil NE NE NE 64742-58-1 > 70
Bland Additive NE NE NE Trade secret < 25
Bland Additive NE NE NE Trade secret < 16
Perfume NE NE NE -- -- < 1
Green dye, Pharmacy Grade NE NE NE -- -- trace

(See Section V for Health data)

BOILING POINT ( X°F ) ( C° ) 400° F SPECIFIC GRAVITY ( H2O=1 ) @ 25° C 0.883 Freezing Point -20° F

VAPOR PRESSURE ( mm Hg ) 100° F : 1 mm PERCENT VOLATILE BY VOLUME ( % ) NA VOC NA
VAPOR DENSITY ( AIR=1 ) NA EVAPORATION RATE ( WATER=1 ) NA
SOLUBILITY IN WATER Negligible pH= NA

APPEARANCE AND ODOR light green oil with slight, fatty odor.

FLASH POINT ( method used ) 266° F CCC FLAMMABLE LIMITS LFL UFL Non-Flammable

LFL NA NA
UFL NA NA

EXTINGUISHING MEDIA Use CO2, dry chemicals, foam, water as a mist only.
SPECIAL FIRE FIGHTING PROCEDURES Prefer CO2 or sand as with oil fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS No unusual hazards
Exposing containers to intense heat could cause drums to rupture. Cool fire-exposed containers with water spray to prevent rupture.

EFFECTS OF OVEREXPOSURE
Eyes and skin: may cause mild irritation. Inhalation: may cause mild upper respiratory irritation. Ingestion: possible nausea.

EMERGENCY AND FIRST AID PROCEDURES
Eyes: flush for 15 min. with water. Skin: wash with soap and water. Inhalation: remove to fresh air. Ingestion: do not induce vomiting; give lots of water to a conscious person. Call Doctor

NE=not established NF=not found NA=not applicable ND=not determined
**SECTION VI - REACTIVITY DATA**

<table>
<thead>
<tr>
<th>STABILITY</th>
<th>UNSTABLE</th>
<th>CONDITIONS TO AVOID:</th>
</tr>
</thead>
<tbody>
<tr>
<td>STABLE</td>
<td>X</td>
<td>Flame, heat, strong oxidizing agents</td>
</tr>
</tbody>
</table>

**INCOMPATIBILITY** (materials to avoid): Swells natural rubber and some plastics. Slight etching of light metals on prolonged exposure may occur.

**HAZARDOUS DECOMPOSITION PRODUCTS.** CO, CO₂, and acrolein when combusted

<table>
<thead>
<tr>
<th>HAZARDOUS POLYMERIZATION</th>
<th>MAY OCCUR</th>
<th>CONDITIONS TO AVOID:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WILL NOT OCCUR</td>
<td>X</td>
<td>NA</td>
</tr>
</tbody>
</table>

**SECTION VII - SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED.**

- Wear respirator and protective clothing. Treat as oil spill. Soak up on absorbent clay or sand and remove to containers.
- WASTE DISPOSAL METHOD: Transport in DOT-approved container to EPA-approved treatment, storage, and disposal facility. Follow local, State & Federal disposal regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION** (specify type) Normally not needed. For oil-type mist, use NIOSH listed respirator.

<table>
<thead>
<tr>
<th>VENTILATION</th>
<th>LOCAL EXHAUST (Specify Rate)</th>
<th>SPECIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local-mechanical</td>
<td>Adequate to avoid fumes and oil mists</td>
<td>Not required normally</td>
</tr>
<tr>
<td>to remove oil mist</td>
<td>MECHANICAL (General) (Specify Rate)</td>
<td>NA</td>
</tr>
</tbody>
</table>

**PROTECTIVE GLOVES** Nitrile-type, oil resistant

**EYE PROTECTION** Chemical goggles or full face shield

**OTHER PROTECTIVE EQUIPMENT** Clean clothes. Apron or chemical suit where splashing may occur.

**SECTION IX - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

- Avoid production of oil mist. Avoid excessive heat. Avoid repeated or prolonged skin or eye contact.
- OTHER PRECAUTIONS

While there is no TLV established for this product, airborne mist should be kept below the nuisance TLV for oil mist: 5Mg/meter³.

**ADDITIONAL INFORMATION**

**DOT:** No hazardous substance

**SARA:** Not considered to be subject to Title III

**TSCA:** All components required to be listed on the inventory are listed.

**IARC-NTP-OSHA:** Neither the mixture nor any component is listed as a carcinogen or suspected carcinogen.

**California Prop. 65 Material:** None.

Prepared: 12-10-93 Updated: 10-23-97
Updated: 12-6-94 Updated: 02-29-00
Updated: 5-7-96 Updated: 03/10/03
Updated: 07/22/05
Updated: 06/10/10
Updated: 01/10/11

by Dr. Robert E. Pratt, consulting chemist