

**Material Safety Data Sheet For
ATL004, ATL016, ATL032-P6, ATL032-P12, ATL128**

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IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:
ATL004, ATL016, ATL032-P6, ATL032-P12,
ATL128

PRODUCT #:
200062

CHEMICAL NAME:
N/A - Mixture

CAS #S:
Mixture

PRODUCT APPEARANCE AND ODOR:
Amber liquid, petroleum odor

CHEMICAL FAMILY
Petroleum hydrocarbon

SYNONYMS:
Petroleum-based hydraulic oil

EMERGENCY TELEPHONE:
1-908-862-9300 / 800-764-7661 Poison Control

COMPONENTS AND HAZARD INFORMATION

COMPONENTS

W/W HAZARD DATA (TLV, LD50, LC50, ETC.):

Petroleum-based lubricating oil
CAS #'s 64742-58-1 and
64742-62-7

5 mg/m3 ACGIH/OSHA
TWA (as an oil mist)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION INCIDENT INFORMATION:

DOT: Not regulated.

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):

365°F Test method: COC

AUTOIGNITION TEMPERATURE:

N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) – HAZARD IDENTIFICATION

HealthFlammabilityReactivity

1

1

0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower: N/E upper: N/E**• EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:**

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, and smoke, or decomposition products. Use supplied - air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

HEALTH AND HAZARD INFORMATION**EXPOSURE LIMIT FOR TOTAL PRODUCT:**

Monitor data listed in COMPONENTS and HAZARD INFORMATION section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human and health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis. Product contacting the eye may cause irritation. Product has a low order of oral and dermal toxicity. Possible aspiration hazard. Induced vomiting may cause aspiration of product into the lungs. (See Emergency First Aid Section).

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE:

Wide range

VAPOR PRESSURE:

<0.1 @ 38°C/100°F

PHYSICAL DATA (Continued)

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
<1.0

VAPOR DENSITY (AIR = 1):
>8

MOLECULAR WEIGHT:
Wide Range

PERCENT VOLATILE BY VOLUME:
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C
(77°F) (n-BUTYL ACETATE = 1):
<1.0

SOLUBILITY IN WATER @ 1 ATM. AND 25°C
(77°F):
Negligible

POUR, CONGEALING OR MELTING POINT:
n/e

FREEZING POINT:
n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide, oxides of sulfur, and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:

Open Flames.

TOXICITY

ORAL (Acute)

N/E

DERMAL (Acute)

N/E

EYE

N/E

INHALATION (Acute)

N/E

CHRONIC, SUBCHRONIC, ETC.

N/E

Medical Conditions Aggravated by Exposure:

Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status:

This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHODS: (Consult federal, state, or local authorities for proper disposal procedures.) Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTIONS AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.) Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations or vapor in air.

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.) Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or vapor respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERED CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Luke McHale

Regulatory Manager

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ATL

DESCRIPTION

ATL 16 A is a premium grade rust and oxidation inhibited anti-wear hydraulic fluid. It exhibits a natural viscosity index and a very high resistance to hydrolysis and thermal decomposition. It is based on a unique combination of specially selected basestocks and additives. ATL 16 A meets or exceeds the requirements of the leading manufacturers of hydraulic equipment, and complies with the following specifications:

ISO 6743/4	Category HM
DIN 51524	Category HLP
AFNOR E48603	Category HM

APPLICATION

ATL 16 A has been specifically designed to be used in all types of hydraulic pumps and motors that require the use of an ISO 46 viscosity grade. Because of its very good anti-wear properties, ATL 16 A is particularly recommended for forced flow or oil splash applications (moving parts, reduction gears, plain or roller bearings, etc...).

BENEFITS

- very good anti-wear properties
- resistance to hydrolysis and oxidation
- inert towards metals (non-staining and no corrosive wear)
- good filterability characteristics
- rapid water/oil demulsibility
- good low foam/air release characteristics

TYPICAL DATA

Appearance	clear light amber liquid
Density @ 60°F, lbs./gal.	7.28
Color ASTM	1.5
Odor	mild petroleum
Viscosity @ 40°C, cSt	46
Viscosity Index	> 95
Pour Point, °F	5
Flash Point, COC, °F	415
Fire Point, COC, °F	445
Copper Strip Corrosion	1A



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