
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATIONS

Product Identifier : Metal Quest ATN-550
General Use : Water soluble metal working liquid
Product Description : Mixture of water miscible additives in water.

2. COMPOSITION/INFORMATION ON INGREDIENTS

	WT.%	CAS Registry #
Petroleum Hydrocarbon	1-3%	-
Chlorine type Extreme Pressure additives	<1%	61788-76-9
Oiliness Improver	1-6%	(Trade Secret)
Anionic surfactant (Contains ethanol amine)	20-30%	(Trade Secret)
Non-ionic surfactant	1-6%	(Trade Secret)
Corrosion Inhibitors	1-6%	(Trade Secret)
Anti Foam Agent	1-3%	(Trade Secret)
Bacteriacide, Funguscide	1-3%	(Trade Secret)
Water	Rest	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW :

Green Transparent, non-flammable liquid with a mild odor of propyl alcohol. If involved in a fire, water content will evaporate and concentrated liquid will catch fire.

POTENTIAL HEALTH EFFECTS

INHALATION :

Vapors irritating to eyes and respiratory tract. Avoid breathing vapors or mists.

EYE CONTACT :

Irritating, and may injure eye tissue if not removed promptly.

SKIN CONTACT :

Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

INGESTION :

Ingestion may cause inflammation of digestive tract and diarrhea. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

CHRONIC :

There are no significant health report.

4. FIRST AID MEASURES

INHALATION :

No adverse effects anticipated by breathing small amounts during proper industrial handling.

EYE CONTACT :

Flush eyes with large amounts of water and get medical attention.

SKIN CONTACT :

Flush with large amounts of water. Use soap if available.
Remove severely contaminated clothing (including shoes) and wash before reuse. If irritation persists, seek medical attention.

INGESTION :

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5. FIRE FIGHTING MEASURES

Flash Point and Method : None

Flammable Limits : None

Autoignition Temperature : None

GENERAL HAZARD :

Material will not burn, but will burn if involved in a fire.

FIRE FIGHTING INSTRUCTIONS :

Under the high temperature atmosphere, water content will evaporate and concentrated liquid will catch fire.

Use water spray to cool fire exposed surfaces and to protect personnel.

Isolate "fuel" supply from fire.

Use foam, dry chemical, or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boilover.

FIRE FIGHTING EQUIPMENT :

Respiratory and eye protection required for fire fighting personnel.

Full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

HAZARDOUS COMBUSTION PRODUCTS :

Smoke, fumes, oxides of carbon and free chlorine.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL :

Absorb spill with an inert material (e.g., dry sand or earth), then place in a chemical waste container.

LARGE SPILL :

This material is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Absorb the liquid and scrub the area with large quantity of water.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE : Ambient
STORAGE PRESSURE : Atmospheric

GENERAL :

Use with adequate ventilation and wash thoroughly after handling.
Keep container closed when not in use.
Follow all MSDS/Label warnings even after container is emptied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS :

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTION :

For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves. Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOH/MSHA approved respirators may be necessary to prevent over exposure by inhalation.

OCCUPATIONAL EXPOSURE LIMITS:

This material does not have established exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Green Transparent Liquid
Specific Gravity	: 1.094 at 15 Deg.C
Boiling Range	: Data not available
Viscosity	: 13 cst at 40 Deg.C
Vapor Density	: Data not available
Evaporation Rate	: Data not available (n-butyl acetate =1)
Solubility in Water	: Soluble in any ratio
pH	: 9.4

10. STABILITY AND REACTIVITY

GENERAL :

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID :

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION :

Products does not decompose at ambient temperature.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE :

INHALATION:

Negligible hazard at ambient/normal handling temperatures.
Elevated temperatures or mechanical action may form vapors, mists, or fumes which maybe irritating to the eyes, nose, throat, and lungs.
Avoid breathing vapors, mists, or fumes.

SKIN CONTACT :

Low order of acute toxicity.
Prolonged or repeated contact may defat the skin causing dermatitis

EYE CONTACT :

Irritating, and may injure eye tissues if not removed promptly.

INGESTION :

May cause vomiting and diarrhea.

CHRONIC:

Data not available.

TOXICITY DATA

ACUTE

No test data are available for the complete formulated product. The potential health hazards described were therefore derived from what is generally known of the toxicity of the mineral oils and additives, taking into account the concentrations at which they are present.

CHRONIC

Data not available.

12. ECOLOGICAL INFORMATION

In the absence of specific environmental data for this product, this assessment is based on information for the additives we get from suppliers.

13. DISPOSAL CONSIDERATIONS

Collect and dispose of waste product at an authorized disposal facility, in conformance with national and local regulations.

14. TRANSPORT INFORMATION

USUAL SHIPPING CONTAINERS :

Rails cars, tank trucks, drums.

TRANSPORT TEMPERATURE :

Ambient to max. 50 Deg

15. REGULATORY INFORMATION

DANGEROUS SUBSTANCES/PREPARATIONS CLASSIFICATION :

We recommend you contact local authorities to determine if there may be local reporting requirements.

16. OTHER INFORMATION

No specific notes.

SOURCE OF KEY DATA:

The recommendations presented in this Material Safety Data Sheet were compiled in actual test data (when available), comparison with similar products, component information from suppliers and from recognized codes of good practice.