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SAFETY PRECAUTIONS

IN GENERAL

When using rotating head cutting equipment, basic safety precautions should always be followed to reduce the risk of personal injury.

Operate this tool only in accordance with specific operating instructions.

WARNING: Do not override the deadman switch on the power unit. Locking down, obstructing, or in any way defeating the deadman switch on the power drive unit may result in serious injury.

DRESS CONSIDERATIONS

Use standard safety equipment. Hard hats, safety shoes, safety harnesses, protective clothes, and other safety devices should always be used when appropriate.

Use safety glasses. Do not operate cutting tools without eye protection.

Dress properly. Do not wear loose clothing or jewelry. They can be caught in rotating and moving parts. Avoid slippery floors or wear nonskid footwear. If you have long hair, wear protective hair covering to contain it.

WORK AREA

Keep the work area clean. Cluttered work areas and benches invite injuries.

Consider the work area environment. Keep the area well lit. Keep electrical cords, cables, rags, rigging straps, and etc. clear of rotating equipment. Do not use power-cutting tools in the presence of flammable liquids and gasses.

Keep visitors away. Do not let visitors or untrained personnel at or near operating tools. Enforce eye protection requirements for all observers.

Do not over reach. Keep proper footing at all times.

Stay alert. Watch what you are doing. Use common sense. Do not operate tools when you are tired.

TOOL CARE

Maintain tools with care. Keep tools in good operating condition. Sharp tool bits perform better and safer than dull tool bits. Well maintained tools function properly when needed.

Check for damaged parts. If a tool has malfunctioned, been dropped or hit, it must be checked for damage. Run no-load tests and feed function checks. Do a complete visual inspection.

Electric motors. Use only with proper AC voltage power sources and observe all normal electric shock hazard procedures.

Do not abuse power and control cords. Pulling or running over cords and cables can result in electrical shock hazards and malfunctions. Keep control and power cords out of all cutting fluids and water.

Hydraulic drives. Observe proper procedures for electrically driven power sources. Avoid damage to hydraulic lines. Keep quick-disconnects clean. Grit contamination causes malfunctions.

Air tools. Check the exhaust muffler. Broken or damaged mufflers can restrict air flow or cause excessive noise. Use air motors only with a filtered, lubricated and regulated air supply. Dirty air, low-pressure air or over pressure air will cause mal-functions, including delayed starting.

AREA EQUIPMENT

Secure work. Whenever possible use clamps, vises, chains and straps to secure pipe.

Make sure the tool is secured; it is safer to have both hands free to operate the tool.

TOOL USE

Use the right tool and tool bit for the job. Do not use a tool, which is incorrect for the job you are doing.

Keep the tool bits fully engaged in the tool bit holders. Loose bits are a safety hazard. Disconnect power supply during setup and maintenance. Use all 'Stop' or Shut off' features available when changing or adjusting tool bits, maintaining the tool, or when the tool is not in use.

Remove adjusting keys and wrenches before applying power to the equipment. Develop a habit of checking the tool before turning it on to make sure that all keys and wrenches have been removed.

Do not force tools. Tools and tool bits function better and safer when used at the feed and speed rate for which they were designed.

Do not reach into rotating equipment. Do not reach into the rotating head stock to clear chips, to make adjustments, or to check surface finish. A machine designed to cut steel will not stop for a hand or an arm.

Handle chips with care. Chips have very sharp edges and are hot. Do not try to pull chips apart with your hands; they are very tough.

Avoid unintentional starts. Do not carry or handle tools with your hand on the operating switches or levers. Do not lay the tool down in a manner that will start the drive. Do not allow the tool to flip around or move when adjusting or changing tool bits.

Store idle tools properly. Disconnect tools from the power source and store in a safe place. Remove tool bits for safe handling of the tool.

GENERAL DESCRIPTION

The Air Caddy (P/N 75-0078) is a modular Filter/Regulator/Lubricator (FRL) unit.

The filter removes solid and liquid contaminates in compressed air that produces wear in air driven equipment.

The regulator reduces and holds compressed air to a desired working pressure.

The lubricator automatically lubricates air driven equipment by introducing small droplets of oil into the air stream.

The Air Caddy is supplied with 10' (3 m) of 1" (25.4 mm) diameter hose.

The Air Caddy is recommended for use with all air motors supplied with TRI TOOL INC. products.

NOTE: Operation of any TRI TOOL INC. air powered equipment without the use of an air filter/regulator/ lubricator (FRL) will void the warranty for that piece of equipment.



92-0084 : Rev. 070227

FILTER/REGULATOR UNIT

Bowl

	Max. Operating Conditions	150° psig at 125° F (10.5 kg/ cm² at 52° C)
	Size	32 oz. (.9 lt)
Filter	Element	5 micron (5 x 10 ⁻³ mm)
Air Flo	ow	331 scfm (156 lt/sec) [Flow rating is at 100 psig (7.0 kg/ cm^2) inlet pressure with a 5 psi (.4 kg/ cm^2) pressure drop.]
Maxin	num Air Flow	331 SCFM (156 It) when coupled with the filter unit.

LUBRICATOR UNIT

Polycarbonate Bowl			
Max. Operating Condition	150 psig at 125° F (10.5 kg/ cm ² at 52° C).		
Sight Dome	Polycarbonate		
Bowl Size	24 oz. (.7 L)		
Air Flow	340 scfm (160 lt/sec) [The flow rating is a t 100 psig (7.0 kg cm ²) inlet pressure with a 5 psi (.4 kg cm ²) pressure drop.]		

MAINTENANCE

Do not operate the Air Caddy Assembly unit until you have read the 'Operator's Manual'.

When the bowl becomes dirty, replace the bowl or wipe with a clean dry cloth.

CAUTION: Depressurize the unit before removing either bowl.

FILTER/REGULATOR MAINTENANCE

Each filter unit must be operated with a filter element.

Periodically clean the filter element by removing the filter by tapping on the surface; blow off debris with an air blowgun.

Change filter when pressure drop exceeds 10 psig or every 12 months.

To Remove the Filter Element

Turn the air pressure off and vent the air from the air caddy system.



Rotate the bowl to unearth it from the filter body.

Periodically drain the accumulated moisture from the filter unit by turning the drain knob on the bowl counter clockwise.

When servicing the lubricator with oil, use only clean, NON-DETERGENT OIL, preferably SAE 10 (90 SSU) or lighter. (P/N 68-0022 is recommended)

NOTE: Sears regular motor oil or Sinclair 'motor oil' are not recommended.

Fill the lubricator through the large fill port on top of the lubricator unit approximately 3/4" full. Do not fill to the tip of the bowl.

CAUTION: The lubricator may not be filled with oil while the unit is under pressure.

Periodically remove the adjusting screw and clean the needle and the seat in the body by blowing off with an air blow gun.

Drain off any contaminants that may collect in the bottom of the bowl.



INSTALLATION AND OPERATION

Install the Air Caddy as close as possible to the point where air is to be used.

The input port to the Aiur Caddy has 1 - 11.5" NPT female threads.

Avoid using fittings, couplings, etc. that restrict the air flow.

Make sure that the hose is connected to the fittings on the lubricator (right side/ output) with Teflon based pipe dope or thread tape.

CAUTION: This product is specifically designed for compressed air service, and use with any other fluid (liquid gas) is a misapplication.

For example, use with or injection of certain hazardous liquids or gases in the system, such as alcohol or liquid petroleum gas, could be harmful to the unit or result in a combustible condition or hazardous external leakage.

The manufacture's warranties are void in the event of misapplication, and the manufacturer assumes no responsibility for any resulting loss.

This unit comes equipped with bowls for the filter/regulator/lubricator (FRL).

The bowls are restricted to a maximum pressure of 150 PSIG (10 bar) or the bowls may fail.

The Air Caddy comes equipped with a 10' (3 m) length of 1" (25.4 mm) hose and associated fittings.

AIR CADDY OPERATION

Drain all of the accumulated moisture from the filter at least once per work shift or when the bowl is full.

Drain accumulated moisture from the filter by turning the filter drain counter clockwise.



Set the regulator pressure by lifting the adjustable knob.

To raise the regulator pressure, turn the adjustable knob clockwise.

To lower the regulator pressure, turn the adjustable knob counterclockwise.

When the desired operating pressure is achieved, the operator may lock the adjusting knob by pushing it down.

To adjust the lubricator oil flow rate, turn the precision oil adjustment knob on the top of the lubricator unit.

CAUTION: The oil flow response time is slow.

Start the lubricator oil flow rate, close the precision oil adjustment screw no more than finger tight and then back it off 1/4 turn.

This is to prevent damage to the needle or the valve seat inside of the lubricator.



The precision oil adjustment knob will break if over tightened.

For required flow rates reference the following chart.

NOTE: This adjustment should be made with the air motor attached and running.

Clockwise decreases the rate of oil flow.

Counterclockwise increases the rate of oil flow.

WARNING: Once set, the Flow Guide® variable orifice in the lubricator will maintain the same ratio of oil to air flow regardless of any change in the air flow rate.

Drops per	Regulator	Air Drive	
Minute	Pressure	Source	
1-2	Do not exceed the	Small	
	Manufacturers		
2-3	recommended Air	Medium	
	Pressure Rating for		
3 - 4	the Air Motor used.	Large	
Lubricator Flow Rate			

NOTE: When the airflow stops, the lubricator stops the flow of oil.

As a general guideline for adjusting the amount of oil flowing to an air motor, the operator can observe the amount of oil being exhausted from the exhaust port(s) on the air motor.

If the amount of oil builds up rapidly at the port(s), the rate is too high.

The operator should reduce the number of drops of oil per minute accordingly.

ILLUSTRATED PARTS BREAKDOWN

AIR CADDY ASSEMBLY (P/N 75-0078)



TRI TOOL INC.

Parts List,	Air Cadd	y Assembly	(P/N	75-0078)
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ltem No.	Part No.	Description	Qty
1.	30-0637	BOLT, U	2
2.	35-0055	NUT, LOCK	4
3.	54-0320	CAP, PLUG	1
4.	54-0233	NIPPLE, PIPE	2
5.	55-0133	HOSE ASSEMBLY, 10' (3 M)	1
6.	75-0068	GAUGE, PRESSURE	1
7.	75-0079	FILTER ASSEMBLY	1
8.	75-0080	REGULATOR ASSEMBLY	1
9.	75-0081	LUBRICATOR ASSEMBLY, OIL	1
10.	75-0082	BRACKET ASSEMBLY, AIR CADDY	1
NOT S	HOWN		
	68-0022	AIR TOOL LUBRICANT	1 QT
	75-0084	FILTER ELEMENT (REPLACEMENT)	1
	76-0031	HOSE ASSEMBLY, FLOW CONTROL	1



Royal Purple, Ltd.

Material Safety Data Sheet

I.	Product Name: Synway [®] Chemical Family: Synthetic based lubricating oil Use: Lubricant and corrosion inhibitor Manufacturer: Royal Purple, Ltd. Address: 1 Royal Purple Lane, Porter, Texas 77365 USA Phone: 281-354-8600 Emergency Phone: 281-354-8600 Fa	Date Issued/Revised: October 11, 2005	
11.	Components: • Base Oil (synthetic with highly refined mineral oil) — S • The precise composition of this oil is proprietary. A monurse in the event of a medical emergency. • All components of this product are listed on the U.S. TS • This product contains no hazardous substances within th • Royal Purple certifies that this product has been evaluate a hazardous waste if discarded in its purchased form.	ynthetic additives with iso-paraffinic diluents. re complete disclosure will be provided to a physician or CA inventory. .e definition of OSHA Regulation 29 CFR 1910.1200. ed for RCRA characteristics and does not meet the criteria of	
111.	Main Hazards / Health Effects: Eyes: May cause irritation. Inhalation: Oil mist may line breathing passages with oil m Ingestion: May cause diarrhea. Skin: May irritate the skin after prolonged periods of cont	aking breathing difficult. act.	
IV.	First Aid: Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help. Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help. Ingestion: Wash out mouth immediately. Do not induce vomiting. Consult physician. Skin: Wash thoroughly with hand cleanser, followed by soap and water. Contaminated clothing should be dry cleaned before reuse.		
V.	Extinguishing Media: Suitable: Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist. Unsuitable: Water jet. Protective Equipment for Fire Fighting: Self-contained breathing apparatus.		
VI.	Accidental Release Measures: Personal Precautions: Wear gloves and protective overalls Environmental Precautions: Do not allow it to enter drains. Spillage: Contain spill and keep from entering waterways.	Absorb on porous material. Large quantities can be pumped.	
VII.	Handling and Storage: Handling: No special handling precautions necessary. Storage: Do not store at elevated temperatures.		
VIII.	Exposure Control / Personal Protection: Respiratory Protection: Hydrocarbon absorbing respirator if misting. Hand Protection: Oil-proof gloves for hypersensitive persons. Eye Protection: Glasses, if applied to parts in motion. Body Protection: Overalls.		
IX.	Physical and Chemical Properties: Physical State: Liquid Color: Purple Odor: Lube Oil pH: Neutral Boiling Range / Point °F (°C): >700 (>371) Pour Point °F (°C): -10 to -40 (-23 to -40) Flash Point (COC) °F (°C): >400 (>204) Autoignition Temperature °F (°C): >550 (>288)	Evaporation Rate (Butyl Acetate = 1): <0.01 Vapor Pressure (kPa): <0.1 Percent Volatiles: None Density (g/cm ³): >0.86 Flammability: Not flammable at ambient temp. OAR Value: UN Oxidizing Properties: None Water Solubility: Insoluble Vapor Density: Greater than Air	

 X. Stability and Reactivity: Stability: Chemically stable under normal conditions. No photoreactive agents. Conditions to Avoid: Powerful sources of ignition and extreme temperatures. Materials to Avoid: Strong inorganic and organic acids, oxidizing agents. Hazardous Decomposition Products: Burning generates smoke, airborne soot, hydrocarbons and oxides or and nitrogen. Residue mainly comprised of soot and mineral oxides. 				
XI.	Toxicological Information: Acute Toxicity: Not known Irritancy-Skin: Very mild Skin Sensitization: Not known Subacute / Sub-chronic Toxicity: Not known Genotoxicity: None known Chronic Toxicity: None known	California Prop 65: N/A Carcinogen: NTP: No IARC: No OSHA: No EC Classification (67 / 548 / EEC): No LC-50: >2000mg/1 - extrapolated from component data LD-50: Not applicable		
XII.	Ecological Information: Possible Effects: In extreme cases, may germinate oil fract nature are highly unlikely. Behavior: Relatively well behaved. Bioaccumulation potent Environmental Fate: Due to its fluid nature and specific gr a nuisance contaminant. It is not thought to be toxic to m	ions that could act as a marine pollutant. Occurrences of this ial nil. avity, this product will float or spread across water making it arine or land organisms.		
XIII.	Waste and Container Disposal: Waste Disposal: Consider recycling. This product, as sold, does not meet the RCRA characteristics of a hazardous waste. Under RCRA, it is the responsibility of the user, at the time of disposal, to determine whether the product meets the RCRA criteria for hazardous waste. Contact a waste disposal company or local authority for advice. Container Disposal: See waste disposal section listed above.			
XIV.	Transport Information: DOT: Nonhazardous UN No.: N/A DOT: Nonhazardous	Air Transport (ICAO, IATA): Bulk Nonhazardous Sea Transport (IMO, IMDG): Bulk Nonhazardous Road and Rail Transport (ADR / RID): Bulk Nonhazardous		
XV.	Regulatory Information: Labeling Information: None needed EC Annex 1 Class.: N/A R Phrases: N/A SARA 311 / 312: None S Phrases: S-3 keep cool, S-16 keep away from ignition sources Ozone Depleting Chemicals: N/A	CERCLA: Nonhazardous TSCA: All components are listed WHMIS (Canada): Not regulated Canadian DSL: All components are listed 40 CFR Part 372 (SARA Section 313): N/A RCRA Hazard Class: Nonhazardous TSCA 12B Components: None		
XVI.	Other Information:			

allustavien

Signature:

Prepared By: A Gustavsen, Ph.D.

Date Issued/Revised: October 11, 2005

As of issue date, the information contained herein is accurate and reliable to the best of Royal Purple's knowledge. Royal Purple does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

LEGEND

- I. Identification of the Substance / Preparation and Company
- II. Composition Information on Ingredients III. Hazards Identification
- III. Hazards Identification IV. First Aid Measures
- V. Fire Fighting Measures
- VI. Accidental Release Measures
- VII. Handling and Storage
- VIII. Exposure Control / Personal Protection
- IX. Physical and Chemical Properties
- X. Stability and Reactivity
- XI. Toxicological Information
- XII. Ecological Information
- XIII. Waste Disposal
- XIV. Transport Information
- XV. Regulatory Information
- XVI. Other Information

NFPA SYMBOL

PERSONAL PROTECTION

HMIS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	В