

Material Name: Masterchem Ultra PAG ISO100

(Includes 8oz, Quart & 55 gal. Drum Containers)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION:

TRADE NAME: Masterchem Ultra PAG100
CHEMICAL NAME: PAG Lubricant/Oil
Use/Applications: Refrigeration Oil
Manufacturer/Supplier: Santech Industries, Inc
Address: 2450 Handley Ederville Rd. Ft. Worth, TX 76118 USA
Phone Number: 1-817-589-1212
Fax Number: 1-817-589-5900
EMERGENCY PHONE NUMBER: 1-800-424-9300 (Chemtrec)

SECTION 2 - PRODUCT/INGREDIENT:

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS (SEE SECTION 14).

COMPONENT	CHEMICAL NAME	%BY WEIGHT
Polyalkylene glycol alkyl ether	Lubricant	100%

SECTION 3 - HAZARD IDENTIFICATION:

EMERGENCY OVERVIEW:

HAZARDOUS MATERIAL INFORMATION SYSTEM (UNITED STATES)	Health	1	National Fire Protection Association NFPA (United States)
Fire	1	0	Use of gloves and safety glasses highly recommended (see Sec. 8 below)
Reactivity	0	Level D	
Personal protection	Level D		

POTENTIAL HEALTH EFFECTS:

HUMAN HEALTH: (EC) Xn R22 – Harmful if swallowed.
SAFETY: No specific hazards.
ENVIRONMENTAL: No specific hazards.
PRIMARY ROUTE OF EXPOSURE: Skin

EFFECTS OF OVEREXPOSURE:

EYES: Expected to cause no more than minor eye irritation; avoid eye contact as good industrial practice.
SKIN: Not expected to be a skin irritant but may cause skin irritation on repeated or prolonged contact.
INHALATION: Avoid breathing vapor or mist. Under normal use conditions, this product is not an inhalation hazard. Prolonged exposure to vapors may cause dizziness and headaches.
INGESTION: May cause nausea. Not expected to be acutely toxic by ingestion.
There is no evidence that this product aggravates an existing medical condition.

SECTION 4 - FIRST AID MEASURES:

EYES: Rinse opened eye for several minutes under running water; consult a physician.
SKIN: Immediately wash with water and soap and rinse thoroughly.
INGESTION: Wash out the mouth with water. Never administer anything by mouth if a casualty is losing consciousness, is unconscious or is convulsing. Do not induce vomiting; call for medical help immediately.
INHALATION: Remove from exposure. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

SECTION 5 - FIRE-FIGHTING MEASURES:

FLASH POINT (degrees C), Cleveland Open Cup >200C
FLAMMABLE LIMITS % (LOWER-UPPER): Lower: Not determined Upper: Not determined.

RECOMMENDED FIRE EXTINGUISHING AGENTS AND SPECIAL PROCEDURES:

Use water spray, dry chemical, alcohol resistant foam, or carbon dioxide to extinguish flames.
 Use water spray to cool fire-exposed containers.
 Unsuitable extinguishing media: water with full jet.

UNUSUAL HAZARDS: Toxic fumes, gases or vapors of carbon oxide and aldehydes may evolve on burning.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear full protective clothing and positive pressure breathing apparatus.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES:

PROCEDURES IN CASE OF ACCIDENTAL RELEASE, BREAKAGE OR LEAKAGE:

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb liquid with sand, earth, or spill control material. Shovel up and place in a labeled, sealable container for subsequent safe disposal. For large spillage transfer to a salvage tank for recovery or safe disposal. Treat residues as for small spillages. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

SECTION 7 - HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN:

HANDLING: Use only in well ventilated areas. Avoid breathing mist or vapor from heated material. The product is not flammable. Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

STORAGE: Store in a cool, dry place in tightly closed containers.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:

PROTECTIVE EQUIPMENT (TYPE):

EYE/FACE PROTECTION: Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

SKIN PROTECTION: Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. Exposed workers should wash exposed skin several times daily with soap and water. Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

RESPIRATORY PROTECTION: Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

VENTILATION: Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate. Exposure Limit for the Total Product: None established for product

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Liquid; amber color; characteristic odor.
BOILING POINT (DEG C):	Decomposes before boiling.
MELTING/FREEZING POINT (DEG C):	Not determined
pH:	Not applicable
VAPOR PRESSURE:	Negligible vapor pressure at ambient conditions.
VISCOSITY:	98 mm 2/s (typical) at 40°C
VAPOR DENSITY (Air=1):	Not determined
SOLUBILITY IN WATER (%):	Partially soluble
POUR POINT:	<-30°C
RELATIVE DENSITY:	1.000 g/cm ³ at 20°C (typical)
DANGER OF EXPLOSION:	Product does not present an explosion hazard.
OTHER:	None

SECTION 10 - STABILITY AND REACTIVITY:

STABILITY:	Stable (thermal, light). Can decompose slowly with localized heating above 150°C.
INCOMPATIBILITY:	May react with strong oxidizing materials, strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Incomplete combustion can form carbon monoxide. Carbon dioxide. Aldehyde.
HAZARDOUS POLYMERIZATION:	Will not occur.

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SECTION 11 - TOXICOLOGICAL INFORMATION:

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA):

ORAL: LD50 believed to be 500 mg/kg (rat)

INHALATION: Not determined

DERMAL: Not established

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES):

SKIN: May cause slight transient irritation.

Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

EYES: May cause slight transient irritation.

SENSITIZATION: Not determined

MUTAGENICITY: Does not exhibit mutagenic activity in the following systems (with and without metabolic activation):

Salmonella typhimurium (based on major component).

OTHER: Swallowing may have the following effects: Irritation of mouth, throat and respiratory tract. Vomiting. Diarrhea.

Exposure to vapor at high concentrations may have the following effects: Irritation of nose throat and respiratory tract.

Low volatility makes acute effects unlikely at ambient temperatures.

Repeated exposure to aerosols may result in lung damage.

SECTION 12 -DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHODS:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

PRECAUTIONS: Must not be disposed together with household rubbish. Do not allow product to reach sewage system.

PRODUCT DISPOSAL: Dispose of in accordance with all local and national regulations.

Incineration is the recommended method of disposal.

CONTAINER DISPOSAL: Labels should not be removed from containers until they have been cleaned. Containers should be cleaned by appropriate methods and then re-used or disposal of by landfill or incineration as appropriate.

Recommended cleansing agents: water – with cleansing agents is required.

SECTION 13 -TRANSPORT INFORMATION:

TRANSPORTATION:

DOT: Not regulated according to DOT.

IMDG: Not regulated according to IMDG.

ICAO/IATA: Not regulated according to ICAO/IATA.

TDG: Not regulated according to TDG.

SECTION 14 -REGULATORY INFORMATION:

FEDERAL REGULATIONS:

This product and/or its components are considered non-hazardous by the following standards:

OSHA Hazard Comm. Standard Classification

SARA Title III Section 311 Hazardous Categorization

No chemicals subject to reporting per the following standards:

SARA Title III Section 302/304 Extremely Hazardous Substances.

SARA Title III Section 313 Toxic Chemical.

CERCLA 102(a)/DOT Hazardous Substances.

California Prop. 65

STATES RIGHT-TO-KNOW REGULATIONS.

State list: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan),

LA (Louisiana), MA (Massachusetts), NJ (New Jersey),

PA (Pennsylvania), RI (Rhode Island)

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SECTION 14 -REGULATORY INFORMATION CON'T:

INTERNATIONAL REGULATIONS:

TSCA INVENTORY STATUS:	This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
CANADIAN INVENTORY STATUS:	This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).
EINECS INVENTORY STATUS:	Classified as polymer Xn – R22. This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).
AUSTRALIAN INVENTORY STATUS:	Not determined.
JAPAN INVENTORY STATUS:	Not determined.
PHILIPPINES (PICCS):	All components listed.
KOREA (ENCS):	All components listed.
CHINA:	All components listed.
CLASSIFICATION – LABELING:	Under the criteria of directive EEC/67/548 (dangerous substances) and EEC/88/379 (dangerous preparations):
EC CLASSIFICATION:	Harmful
EC SYMBOLS:	Xn – Harmful
EC RISK PHRASES:	R 22 Harmful if swallowed.
EC Safety Phrases:	S 24/25 Avoid contact with skin and eyes.

SECTION 15 -ENVIRONMENTAL INFORMATION:

BIODEGRADABILITY:	Expected to be partially or slowly biodegradable.
BIOACCUMULATION:	Not expected to bioaccumulate.
WATER HAZARD:	Class 2 (German Regulation): hazardous for water.
REMARKS:	None

SECTION 16 -OTHER INFORMATION:

None

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Santech Industries, Inc.
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