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SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Platinum Z- Ultra Clear Vacuum Pump oil

Product Description: Highly Refined Mineral Oil Base Stock (oil) with Synthetic Hydrocarbon Oil.

Intended Use: Lubricant, Vacuum Pump Lubricant

COMPANY IDENTIFICATION

Supplier Climate Components, LLC

725 Old Norcross rd. #D Lawrenceville, GA 30046

Emergency telephone numbers USA – Chemtrec: 800-424-9300 All Others – Chemtrec: +1-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines see Section 15.

BVA operates a world-wide system for hazard communication. Some hazards shown in Section 2 may apply to non-EU countries and may not result in classification and labeling in the EU. Please see Section 3 and 15 for country specific classification information, and Section 11 for additional details.

HEALTH HAZARDS

Classification of the substance or mixture

ACUTE TOXICITY: ORAL - Category 5

INHALATION - Category 5

Hazard Classification: Not hazardous.

Label Elements Including Precautionary Statements

Symbol: None. Signal Word: None.

Hazard Risk Statement: Not hazardous.

Precautionary Statement: Avoid contact with skin and eyes.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

Other Hazard: None known.

U.S.A. Hazardous Material Information System and National Fire Protection Association (U.S.A.)

Degree of Hazard	NFPA	HMIS	HAZARD RATINGS	
Health	1	1	0	Insignificant
Fire	1	1	1	Slight
Reactivity	0	0	2	Moderate
Personal Protection		В	3	High

Note: This information is based on test data from similar products.

This product is not formulated to contain ingredients which have exposure limits established by regulatory agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

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SECTION 3: COMPONENT INFORMATION							
Chemical Name	CAS#	EINECs/ELINKs #	Percent (% wt)	Symbols /Risk Phrases			
The base oil may be a mixture of the Following: 1) Hydrotreated Distillate, Heavy Paraffin 2) Hydrotreated Distillate, Light Paraffin 3) 1-decene, homopolymer, hydrogenated or other hydrogenated polyalphaolefin Synthetic Hydrocarbon Fluids	The base oil may be a mixture of the Following CAS#s: 64742-54-7, 64742-55-8 68037-01-4 151006-62-1	265-157-1 265-158-7 500-183-1 417-070-7	All Combined >99%	IK (None Required)			
Proprietary additives			<1%	IK (None Required)			
Reportable Hazardous Substance(s) or Complex Substance(s)							
None							

Explanation of symbols:

IK = No Classification Required,

INGREDIENT COMMENTS

If no EU or no CAS numbers are given for classified components the raw material supplier has applied for / will apply for exemption, have not sent the complete information yet, or there could be no obligation to give the EU or CAS numbers.

SECTION 4 : FIRST AI	SECTION 4: FIRST AID MEASURES				
Inhalation:	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.				
Skin:	Wash with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops get medical attention.				
Eye:	Flush thoroughly with water. If irritation occurs, get medical assistance.				
Ingestion:	First aid is normally not required. Seek medical attention if discomfort occurs.				

SECTION 5 : FIRE FIGHTING PROCEDURES						
EXTINGUISHING MEDIA	Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.					
FIRE FIGHTING	Inappropriate Extinguishing Media: Straight streams of water Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. Hazardous Combustion Products: Smoke, Fume, Carbon Monoxide, Aldehydes,					
FLAMMABILITY PROPERTIES	Flash Point ASTM D92 (open cup typical) C (°F) Platinum Z VPO 216 (420)	Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D Autoignition Temperature: N/D				

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SECTION 6 : SPILL OR I	SECTION 6 : SPILL OR LEAK HANDLING PROCEDURES					
SPILL MANAGEMENT	Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.					
	Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.					
	Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.					
ENVIRONMENTAL PRECAUTIONS	Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.					

SECTION 7 : HANDLING AND STORAGE				
HANDLING	Prevent small spills and leakage to avoid slip hazard.			
2727127	Static Accumulator: This material is a static accumulator.			
STORAGE	Do not store in open or unlabelled containers.			

SECTION 8 : EXPOSURE CONTR	SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION					
	erials that can be formed when handling this product: When mists / aerosols can occur, the					
following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL.						
	nded monitoring procedures can be obtained from the relevant agency(ies)/institute(s)					
ENGINEERING CONTROLS	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:					
	No special requirements under ordinary conditions of use and with adequate ventilation					
PERSONAL PROTECTION	Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.					
Respiratory Protection:	Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:					
No special requirements under ordinary conditions of use and with adequate ventilation.						
	For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.					
Hand Protection:	Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:					
	No protection is ordinarily required under normal conditions of use.					
Eye Protection:	If contact is likely, safety glasses with side shields are recommended.					
Skin and Body Protection:	Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:					
	No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.					
Specific Hygiene Measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.					

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ENVIRONMENTAL CONTROLS | See Sections 6, 7, 12, 13.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES						
Typical phys	sical and chemical properties are gi	ven below. Consult the Supplie	er in Section 1 for additional data.			
General Information		HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION				
Physical State	Liquid	Density at 20°C	0.855 - 0.863			
Color	Clear colorless to pale yellow	Flash Point typical °C (°F)	>205 (401) See Section 5			
Odor	Characteristic	Flammable Limits	LEL: N/D UEL: N/D			
Odor Threshold	ND	Autoignition Temperature:	ND			
		Boiling Point °C (°F)	>200 °C			
OTHER INFORMATION	<u>ON</u>	Vapor Density (Air=1)	NA			
Pour Point °C (°F) -12 (10) or below		Vapor Pressure	< 0.013 kPa (0.1 mm Hg) at 20°C			
Freezing Point	ND	Evaporation Rate (N-Butyl Acetate = 1):	ND			
Viscosity are +/- 10%						
Viscosity cSt at 40°C		Solubility in Water	Nil			
Platinum Z VPO 4	16	Oxidizing Properties	See Sections 3, 15, 16.			

SECTION 10: STABILITY & REACTIVITY					
STABILITY:	Material is stable under normal conditions.				
CONDITIONS TO AVOID:	Excessive heat. High energy sources of ignition.				
MATERIALS TO AVOID:	Strong oxidizers				
HAZARDOUS DECOMPOSITION PRODUCTS:	Material does not decompose at ambient temperatures.				
HAZARDOUS POLYMERIZATION:	Will not occur.				

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Potential acute health effects

Inhalation: No known significant effects or critical hazards. Ingestion: No known significant effects or critical hazards. Skin contact: No known significant effects or critical hazards. Eye contact: No known significant effects or critical hazards.

PRODUCT

Route of Exposure	<u>Conclusion / Remarks</u>
INHALATION	
Toxicity: LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
INGESTION	
Toxicity: LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity: LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	·
Irritation: Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

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CHRONIC/OTHER EFFECTS

For the product itself:

Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract.

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals.

CARCINOGENIC EFFECTS:

Contains no carcinogens. Similar compounds essentially non-toxic. No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA), NTP or IARC.

Although there is no specific test data on all the base oil components, the mineral base oil would not be expected to exhibit carcinogenic potential based on what is known of the toxicity of mineral base oils in general.

The DMSO extract by IP 346 of the oil is less than 3%.(Typical 0.2% with Maximum 0.5%) Consequently it is not classified as a carcinogen.

The base oil in this product is severely hydro-treated by all hydro-processing route. By this refining history would be showed no evidence of carcinogenic potential.

MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

TERATOGENIC EFFECTS/DEVELOPMENTAL TOXICITY: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

REPRODUCTION TOXICITY: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

Additional information is available by request.

OVER - EXPOSURE SIGNS/SYMPTOMS

Skin No known significant effects or critical hazards.
Ingestion No known significant effects or critical hazards.
Inhalation No known significant effects or critical hazards.

SECTION 12: ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials. ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land.

Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

ECOLOGICAL DATA

Data for Highly Refined Severely Hydrotreated Base oil for similar materials

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TEST	Duration	Organism Type	Test Results
Aquatic - Chronic Toxicity	21 day(s)	Water Flea	NOELR 1.05 mg/l: data for similar
			materials
	7 days	Fish	NOEC: > 5000mg/L (IUCLID Dataset)
	7 days	Aquatic Invertebrates,	NOEC: > 5000mg/L (IUCLID Dataset)

Care should be taken to minimize release of this product into the environment					
Environmental Fate & Distribution No Data Available Other Typical (not a specification)					
Persistence & Degradation Toxicity	No Data Available	Acute Toxicity to Fish:	No Data Available		
Effect on Effluent Treatment	Product may be partially	Effect Concentration on Algae:	No Data Available		
	removed in biological	Ready Biodegradability:	No Data Available		
	treatment processes.	Respiration Inhibition:	No Data Available		
	·	Adsorption/Desorption:	No Data Available		
		Abiotic Degradability-Hydrolysis:	Not measurable		

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

European Waste Code: 13 01 10

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

This material is considered as hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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SECTION 14: TRANSPORT INFORMATION

LAND (ADR/RID): Not Regulated for Land Transport

INLAND WATERWAYS (ADNR): Not Regulated for Inland Waterways Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

ICAO/IATA Classification Proper shipping name: Not regulated US DOT Classification: Not Regulated IATA Class Marine Pollutant: Not a Pollutant UN number: Not regulated. Special Provisions for transport: None Identified Packing Group: Not regulated. **ADR/RID Classification** IMO/IMDG Classification UN number: Not regulated. Proper shipping name: Not regulated IMDG Class: Not regulated Proper shipping name: Not regulated. ADR/RID Class: Not regulated. UN number: Not regulated. Packing Group: Not regulated. Packing Group: Not regulated. Marine Pollutant: Not pollutant.

USA: No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warnings are not applicable for this

product; therefore no OSHA Warnings would appear on the label. No EPA hazard classification code.

SECTION 15: Regulatory Information Product Component Ingredients

Europe

Material is not dangerous as defined by the EU Dangerous Substances/Preparations Directives.

EU LABELING: Not regulated according to EC Directives Material is not dangerous as defined by the EU Dangerous Substances/Preparations Directives.

Classification and labeling have been performed according to EU Directives 67/548/EEC, 1999/45/EC and 2001/58/EC (including amendments) and the intended use.

- Consumer applications.

United States

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances: None. Section 304 CERCLA Hazardous Substances: None.

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

Canada

WHMIS (Canadian Workplace Hazardous Materials Information System)

This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act.

Germany: Water Hazardous Class (WGK): 1 (low hazard to water)

NATIONAL LEGISLATION / REGULATIONS

Ozone depleting chemicals: No ozone depleting chemicals are present or used in manufacture.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements: , DSL, ENCS, TSCA Special:

Inventory	Status
AICS	All components are listed or exempted.
ELINCS	Restrictions Apply
IECSC	All components are listed or exempted.
KECI	All components are listed or exempted.
PICCS	All components are listed or exempted.

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Detail	
U.S. Regulations	US INVENTORY (TSCA 8b): Listed on inventory.
	SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355):: This product is not
	regulated under Section 302 of SARA and 40 CFR Part 355.
	SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370):: Defined as non-hazardous by
	OSHA under 29 CFR 1910.1200(d).
	SARA 313 toxic chemical notification and release reporting: No products were found.
	CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not regulated under
	CERCLA Sections 103 and 107.
State	No products were found.
Regulations	California prop. 65: No products were found

SECTION 16: OTHER INFORMATION

This product safety data sheet was prepared in compliance with Commission Directive 2001/58/EC, 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labeling of dangerous substances and preparations.

N/D = Not determined, N/A = Not applicable
KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT (for information only):
THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS: minor typographical 17 August 2010
Date of ISSUE/Printing June 30, 2014

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