CAM2 INTERNATIONAL, LLC MATERIAL SAFETY DATA SHEET

CAM2 International, LLC
P.O. Box 1119
Evergreen, CO 80437
Tel: 800-338-2262
MSDS on-line: www.CAM2International.com

CAM2 Blue Blood Synthetic Blend Racing Oil 20W-50

MSDS No: 677
Ver. No: 2
Ver. Date: 3/1/2009

24-HOUR EMERGENCY NUMBERS:
PERS 1-800-633-8253
INT'L PERS 1-801-629-0667
CUSTOMER SERVICE:
303-292-0595

National Fire Protection Association **HMIS Rating**

0	Health	Health	0
1	Flammability	Flammability	1
0	Reactivity	Reactivity	0
0	Special	Special	0

Protective Equipment:

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**CAM2 Blue Blood Synthetic Blend Racing Oil 20W-50**
Chemical Name:	Motor Oil
Chemical Family:	Blend
Chemical Formula:	Mixture
Product Code:	677
CAS Registry:	Mixture
Other Designations:	None
General Use:	Engine Oil.
Manufacturer:	CAM2 International, LLC P.O. Box 1119, Evergreen, CO 80437, Phone (800) 338-2262 (Hours of operation: Mon-Fri 7:00am-5:00pm MST)

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

©2009 CAM2 International, LLC

EXPOSURE GUIDELINES			OSHA		ACGIH		
Component/CAS Number	LO%	HI%	TWA	STEL	TWA	STEL	UNIT
Limits for the Product			5		5		MG/M3
Severely Solvent Refined Heavy Paraffinic Petroleum Oil							
64741-88-4	.00	80.00	5		5		MG/M3
Ethylene Propylene Copolymer							
9010-79-1	10.00	15.00		NO SPECIFIC LIMIT			
Zinc Dialkyl Dithiophosphate							
68649-42-3	2.0	2.0		NO SPECIFIC LIMIT			
Borated Polyisobuten YL Succinic Anhydride							
	0.0	10.0		NO SPECIFIC LIMIT			
Acrylic Copolymer							
68171 -46-0	0.0	1.0		NO SPECIFIC LIMIT			
Hydrotreated Heavy Paraffinic Petroleum Oil							
64742-54-7	0.0	85.0					MG/M3
Alkyl Diphenylamine							
27177-41-9	0.0	1.0		NO SPECIFIC LIMIT			
Polybutene							
9003-29-6	0.0	1.0		NO SPECIFIC LIMIT			MG/M3

Additional Exposure Limits ---------- Government Regulation
OTHER LIMIT – OIL MIST: 5MG'M3 OSHA PEL'ACGIH TLV .

SECTION 3 – HAZARDOUS IDENTIFICATION (HMIS)

Health: 0
Flammability: 1
Reactivity: 0
Special: 0
0 = minimal 1= slight 2=moderate 3= serious 4= severe

HMIS
H # 0
F # 1
R # 0
PPE†
†Sec. 8

EMERGENCY OVERVIEW
MAY CAUSE SKIN IRRITATION

APPEARANCE: AMBER FLUID ODOR: MOTOR OIL ODOR

POTENTIAL HEALTH EFFECTS:

INHALATION: NO EFFECTS EXPECTED. INGESTION: PRACTICALLY NON-TOXIC.

EYE CONTACT: EXPECTED TO BE MINOR EYE IRRITANT.

SKIN CONTACT: PRACTICALLY NON- TOXIC IF ABSORBED (LD50 > 2000 MG'KG). MAY CAUSE

MODERATE IRRITATION WITH PROLONGED OR REPEATED CONTACT..

CARCINOGEN LISTED BY: IARC(N0) NTP(NO) OSHA9NO) ACGIH(NO) OTHER(NO)

©2009 CAM2 International, LLC

SECTION 4 – FIRST AID MEASURES

Emergency and First Aid Procedures:

Eye contact: Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, obtain medical attention.

Skin contact: Wash affected area thoroughly with soap and water until no odor remains. If redness or swelling develops, obtain medical assistance. Wash clothing before reuse.

Ingestion: Practically non-toxic. Induction of vomiting not required. Obtain medical emergency medical attention. Small amounts which accidentally enter mouth should be rinsed out until taste of substance is no longer detected.

Inhalation: Move to fresh air.

Note to Physicians: Treat symptomatically

Special Precautions/Procedures: None known

SECTION 5 – FIRE-FIGHTING MEASURES

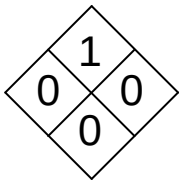
Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO2), foam.

Flash Point: 383 ºF Minimum, 195 ºC Minimum

Flash Point Method: Cleveland Open Cup

Auto Ignition Temperature: 675 ºF (Estimated) 359 ºC (Estimated)

NFPA



Flammable (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

Flammability Classification: Not Flammable

Fire-Fighting Instructions; This material will burn although it is not easily ignited. For fires involving this material, do not enter any confined space without proper PPE, including an SCBA.

Fire-Fighting Equipment: Fire may produce toxic thermal decomposition products; wear an (SCBA).

Hazardous Combustion Products: Highly dependent on combustion conditions. A complex mixture forms when this material undergoes combustion. Examples: carbon dioxide, water vapor, unidentified organic compounds.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Recover usable material by convenient method; residual may be removed by wipe or wet mop

Small Spills: Small spills should be absorbed with a suitable inert material (sand, earth, clay, etc.). Remove the absorbed material and place in an appropriate chemical waste container for disposal.

Large Spills: For large spills, dike and pump into suitable containers. Clean up residual with suitable inert material..

Containment: For large spills, dike far ahead of liquid spill for later disposal.

Regulatory Requirements: Follow applicable Federal, State and Local regulations.

SECTION 7 – HANDLING AND STORAGE

Precautionary Measures: Keep out of reach of children.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient.

Storage Requirements: NFPA Class IIIB Storage.

©2009 CAM2 International, LLC

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

General Considerations:	Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances when designing engineering controls suitable for the workplace.
Engineering Controls:	Use in a well ventilated area.
Protective Clothing/Equipment:	
Skin:	No special protective clothing is normally needed.
Eye/Face:	No special eye protection is normally needed.
Respiratory Protection:	No respiratory protection is normally needed.
Work and Hygienic Practices:	Wash or rinse hands before touching eyes or contact lenses, and before eating.
Safety Stations:	Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor:	Amber Fluid, Motor Oil Odor
Evaporation Rate:	1000X Slower (ETHYL ETHER=1)
Boiling Point:	High
Vapor Pressure:	<0.0001 (MM HG @ 20℃)
Pour Point, ºC:	-34 (Estimated)
Specific Gravity (water =1):	0.86 (Estimated)
API Gravity:	31.0 (Estimated)
Viscosity @ 100 ºC, cSt:	20.5 (Estimated)
Viscosity @ 40 ºC, cSt:	185 (Estimated)
Vapor Density (Air =1):	>1
Solubility:	Soluble in hydrocarbons; almost completely insoluble in water
Molecular Weight:	N/A (G/MOLE)
Melting Point:	N/A
Viscosity:	68.5 CST @ 40℃
Packing Density:	N/A
Octanol / Water Coeff.:	N.D.
Odor Threshold:	N.D.
Vapor Density:	10+ (Air = 1)

SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Materials to Avoid:	Strong oxidizing agents.
Conditions to Avoid:	Strong oxidizing agents.
Hazardous Decomposition:	Combustion will produce carbon monoxide and asphyxiants.

SECTION 11 – TOXICOLOGICAL INFORMATION

FOR THE PRODUCT –
INHALATION: Low acute toxicity. SKIN: expected to be acutely non-toxic if absorbed. mild irritation with prolonged/repeated contact. EYE: mildly irritating on contact. ORAL: practically non-toxic

SEVERELY SOLVENT REFINED HEAVY PARAFFINI C PETROLEUM OIL –

INHALATION: low acute toxicity. SKIN: practically non-toxic if absorbed may cause moderate irritation with prolonged

and repeated contact. EYE: minimally irritating on contact. INGESTION: Practically non-toxic if swallowed.

ETHYLENE/PROPYLENE COPOLYMER: No data available for all routes of exposure
ZINC DIALLKLY DITHIO PHOSPHATE

INHALATION: Toxic hydrogen sulfide is generated when heated above 200 deg. F. This can cause central nervous system (brain) effects, nausea, dizziness, confusion, loss of sense of smell, muscle cramps, in coordination, unconsciousness, coma, respiratory failure, or death.

SKIN: Prolonged or repeated contact may cause moderate irritation, redness, drying, cracking, dermatitis.

EYE: Irritant. ORAL: Harmful if swallowed. BORATED POLYISOSOBUT ENYL SUCCINIC ANHYDRIDE – No data available for all routes of exposure.

ACRYLIC COPOLYMER: No data available for all routes of exposure.

SEVERELY SOLVENT REFINED HEAVY PARAFFINI C PETROLEUM OIL: INHALATION: low acute toxicity.

SKIN: practically non-toxic if absorbed may cause moderate irritation with prolonged and repeated contact.

EYE: minimally irritating on contact.

INGESTION: Practically non-toxic if swallowed. ALKYL DIPHENYLAMINE: No data available for inhalation or eye contact. SKIN: Possible allergic reaction. ORAL: Toxic if swallowed. May cause loss of appetite, diarrhea, & death.

POLYBUTENE: No significant effects by inhalation, skin absorption, or eye contact. ORAL: Practically nontoxic if swallowed.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	No Data Available.
Environmental Fate:	This material is not expected to be readily biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method:	Do not flush to drain/sewer. Contact an authorized disposal service. Disposal should be in accordance with all applicable federal, state and local laws and regulations.
Container Cleaning and Disposal:	Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT Shipping Name:	Non-Hazardous Petroleum Lubricating Oil
Shipping Symbols:	Not Regulated
Hazard Class:	Not Regulated
DOT Identification No.:	Not Regulated
Packing Group:	Not Regulated

Label:	Not Regulated
Packaging Authorizations:	Not Regulated
Quantity Limitations:	None

SECTION 15 – REGULATORY INFORMATION

TSCA: This material is in compliance with the TOXIC SUBSTANCES CONTROL ACT (15 USC 2601 -2629) and is listed in the TSCA Inventory.

SARA 302 THRESHOLD PLANNING QUANTITY,		N/A	
SARA 304 REPORTABLE QUANTITY		N/A	
SARA 311/312 REPORTING:	Health	Immediate (Acute)	No
	Health	Delayed (Chronic)	No
	Physical	Fire	No
	Physical	Sudden Release of Pressure	No
	Physical	Reactive	No

When a product and/or component is listed below, the regulatory list on which it appears is indicated. ZINC

DIALKYL DITHIOPHOSPHATE – NJ 01

01=SARA 313	02= SARA 302/304	03=IARC CARCINOGEN
04=OSHA CARCINOGEN	05=ACGIH CARCINOGEN	06=NTP CARCINOGEN
07=CERCLA 302.4	08=WHMIS CONTROLLED PROD.	
10=OTHER CARCINOGEN		
PA=PA RTK	NJ=NEW JERSEY RTK	CA=CALIFORNIA PROP 65
MA=MASS. RTK	MI-MICHIGAN 406	MN=MINNESOTA RTK
FL=FLORIDA	RI=RHODE ISLAND	IL=ILLINOIS
NY=NEW YORK	WV=WEST VIRGINIA	CT=CONNECTICUT
LA=LOUISIANA	ME=MAINE	OH=OHIO

SECTION 16 – OTHER INFORMATION

Prepared By: **CAM2 International, LLC**

Disclaimer: THE INFORMATION GIVEN HEREIN IS GIVEN IN GOOD FAITH AND FROM SOURCES WE BELIEVE RELIABLE. BUT NO WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS IS MADE.

The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not apply.

CONSULT CAM2 INTERNATIONAL, LLC FOR FURTHER INFORMATION.

©2009 CAM2 International, LLC