

SAFETY DATA SHEET

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product identifier: VISCOR CALIBRATION FLUID 16B

Product use: Calibration Fluid

Supplier name and address:

Rock Valley Oil & Chemical Co.

1911 Windsor Road

Rockford, IL, 61111 USA

Phone: (815) 654-2400

Manufacturer's name and address:

Refer to Supplier

24 Hour Emergency Telephone #: (INFOTRAC) 800-535-5053

Outside United States and Canada 352-323-3500

SECTION 2 — HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless liquid. Solvent-like odor.

Caution! Combustible liquid and vapor. May be harmful or fatal if swallowed. Can enter lungs and cause damage. Harmful if inhaled. Can cause headache, nausea and other central nervous system effects. May cause skin and eye irritation. Contains material that may cause liver or kidney effects, based on animal data.

POTENTIAL HEALTH EFFECTS

Target organs: Eyes, skin, respiratory system, central nervous system.

Routes of exposure: Skin contact, eye contact, inhalation, ingestion.

Signs and symptoms of short-term (acute) exposure:

Inhalation: Inhalation may cause irritation to the nose, throat, and respiratory tract. Central nervous system (CNS) depression may result. Symptoms of CNS depression may include headache, nausea, dizziness, drowsiness, and loss of consciousness.

Skin contact: Skin contact may cause mild to moderate irritation.

Eye contact: Direct eye contact may cause mild irritation.

Ingestion: This product presents an aspiration hazard. Aspiration into the lungs following inhalation, ingestion or subsequent vomiting may cause life-threatening lung injury.

Chronic effects: Repeated or prolonged skin exposure may result in drying, cracking and defatting of the skin (dermatitis).

Animal studies indicate that this product may result in liver or kidney effects. Repeated overexposure may cause a rare reaction in hypersensitive individuals, resulting in blood changes (aplastic anemia – decreased bone marrow cell production).

Conditions aggravated by exposure: Pre-existing skin, eye, respiratory, kidney, liver, blood and central nervous system disorders.

Carcinogenic status: See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards: See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
			<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Petroleum Hydrocarbon	8052-41-3	60 - 100	100 ppm	N/Av	500 ppm	N/Av

SECTION 4 — FIRST AID MEASURES

Inhalation: If inhaled, immediately remove victim to fresh air. If not breathing, give artificial respiration. Obtain medical attention immediately.

Skin contact: Immediately remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and running water. Obtain medical attention if irritation persists. Launder clothing before reuse.

Eye contact: Flush eyes with running water for at least 15 minutes. Obtain medical attention if irritation persists.

Ingestion: If swallowed, DO NOT induce vomiting. Obtain medical attention immediately. Never give anything by mouth to an unconscious or convulsing person. Guard against aspiration into the lungs.

Note to Physicians: Treat symptomatically.

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SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: Combustible liquid. This material may be ignited when exposed to extreme heat, direct flame and other sources of ignition. Vapors are heavier than air and will collect in low-lying areas and confined spaces. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Product will float and may be re-ignited at the water's surface.

Flammability classification (OSHA 29 CFR 1910.1200): Combustible liquid Class II.

Flash point (Method): 40.6°C / 105°F (TCC)

Auto-ignition temperature: N/Av

Lower flammable limit (% by volume): N/Av

Upper flammable limit (% by volume): N/Av

Explosion data: *Sensitivity to mechanical impact / static discharge:* Not expected to be sensitive to mechanical impact or static discharge.

Oxidizing properties: N/Av

Suitable extinguishing media: Use water fog, dry chemical, carbon dioxide or foam.

Special fire-fighting procedures/equipment: Firefighters should wear proper protective equipment and a self-contained breathing apparatus. Move containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment and containers exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

Hazardous combustion products: Carbon oxides and other irritating fumes and smoke.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Dike far ahead of the spill with non-combustible, inert absorbent material.

Spill response/Cleanup: Eliminate all sources of ignition. Ventilate area of release. Stop leak if you can do so without risk. Use only non-sparking tools during the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand, earth), then place absorbent material into a suitable container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials: None known.

Special spill response procedures: If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

DOT/CERCLA Reportable quantity (RQ): None

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: This material is a combustible liquid. Wear appropriate protective equipment during handling. Use in a well-ventilated area. Avoid inhalation of vapors. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep away from heat, flame and other sources of ignition. Use non sparking tools. Ground all equipment during handling operations. Keep away from incompatibles (see Section 10). Use caution when opening cap. Keep container tightly closed when not in use. Assume empty containers contain residues, which are hazardous.

Storage requirements: Store in a cool, dry, well-ventilated area away from all sources of ignition, incompatible materials and direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

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SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Use sufficient mechanical or local exhaust ventilation to maintain exposure below TLV's.

Respiratory protection: Use NIOSH-approved respirators if airborne concentrations are above recommended TLV's or are not known. Advice should be sought from respiratory protection specialists.

Skin protection and other protective equipment: It is recommended that protective gloves impervious to the material be worn at all times during use. Confirmation of what type of material is most suitable for the intended application, should be obtained from glove suppliers. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

Eye / face protection: Chemical splash goggles to prevent direct contact, irritation, or injury.

General hygiene considerations: Avoid breathing vapors or mists. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when working. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

Permissible exposure levels: For individual ingredient exposure levels, see Section 2.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical form, color and odor: Colorless liquid. Solvent-like odor.

Odor threshold: N/Av

Boiling point: 149-179°C / 300-355°F

Specific gravity (water=1): 0.7850

Coefficient of oil/water distribution: N/Av

Solubility in water (%): Insoluble

Volatile organic compounds (VOC's): N/Av

pH: N/Av

Evaporation rate (nBuAC=1): N/Av

Melting/freezing point: N/Av

Vapor pressure (mmHg): 1.1 @ 20°C

Vapor density (Air=1): Heavier than air

Percent Volatile by Volume: 100%

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable under the recommended storage and handling conditions prescribed.

Hazardous polymerization: Will not occur.

Conditions to avoid: Extreme heat, open flame and other sources of ignition.

Materials to avoid (incompatibles): Strong oxidizing agents.

Hazardous decomposition products: None known. Refer to 'Hazardous combustion products', Section 5.

SECTION 11 — TOXICOLOGICAL INFORMATION

Toxicological data: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredients	LC ₅₀ (mg/m ³ / 4 hrs) inh, rat	LD ₅₀ (mg/kg)	
		oral, rat	dermal, rabbit
Petroleum Hydrocarbon	> 5500	> 5000	> 3000

Carcinogenic status: None of the ingredients listed are classified as carcinogenic by IARC, ACGIH or NTP.

Reproductive effects, Teratogenicity, Mutagenicity: None known.

Sensitization to material: No skin or respiratory sensitization effects are known.

Other important hazards: None known.

Synergistic materials: Not available.

SECTION 12 — ECOLOGICAL INFORMATION

Chemical fate information: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Do not discharge product unmonitored into the environment.

Ecotoxicological information: There is no data available on the product itself.

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SECTION 13 — DISPOSAL CONSIDERATIONS

Handling for disposal: Empty containers may contain product residue or vapors. Do not use cutting torch on empty containers. Handle according to recommendations listed in Section 7.

Methods of disposal: Dispose in accordance with all applicable federal, state, provincial and/or local regulations. Contact your local, state, provincial and/or federal environmental agency for specific rules.

RCRA: If this product, as supplied, becomes a waste, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 — TRANSPORTATION INFORMATION

US 49 CFR information:

Proper Shipping Name: Petroleum distillates, n.o.s.

Hazard Class - Primary: 3

Identification No.: UN1268

Hazard Class(es) - Subsidiary: None

Packing Group: III

RQ Components: None

Marine Pollutant: None

Special Transportation Notes: For shipments by ground within the United States, the Limited Quantity or Consumer commodity exceptions may apply. Under the US 49 CFR, refer to Section 173.150 for additional exception requirements.

Canadian Transportation of Dangerous Goods Regulations (TDGR) Shipping Information:

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

Identification No.: UN1268

Packing Group: III

Primary Class: 3

Subsidiary Class(es): None

Other Shipping Information: This product may be shipped by ground within Canada, as a 'Consumer commodity' or a 'Limited Quantity', when transported in containers which hold 5 Liters or less of the material. Refer to Section 1.17 for additional requirements for Limited Quantities and Consumer Commodities.

SECTION 15 — REGULATORY INFORMATION

US Federal Information:

TSCA information: All ingredients are listed on the TSCA inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None

SARA TITLE III:

Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present.

Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute); Delayed (Chronic); Fire Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds for extremely hazardous substances are 500 pounds or the individual chemical's threshold planning quantity (TPQ), whichever is lower; and 10,000 pounds for all other hazardous chemicals.

Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material may be subject to SARA notification requirements, since it contains 1,2,4-Trimethylbenzene, a Toxic Chemical constituents above its *de minimus* concentration.

Note: 1,2,4-Trimethylbenzene is present only as a component of a complex mixture (CAS# 8052-41-3)

US State Right to Know Laws:

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

New Jersey Labeling Requirements: This product contains the following substances that may be required to be disclosed on product labeling:

Chemical Name	CAS #	% (weight)	New Jersey Hazardous Substance
Petroleum Hydrocarbon	8052-41-3	60-100	Yes

International Information:

Canadian WHMIS Classification: Class B3 (Combustible Liquids); Class D2B (Materials Causing Other Toxic Effects – Toxic Material)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

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Canadian CEPA information: All ingredients are present on the DSL.

SECTION 16 — OTHER INFORMATION

NFPA Rating:

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 1 Flammability: 2 Instability: 0 Special Hazard: None

HMIS Rating:

* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *1 Flammability: 2 Reactivity: 0

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: US Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: US Code of Federal Regulations
DOT: US Department of Transportation
DSL: Canadian Domestic Substances List
EPA: US Environmental Protection Agency
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
N/Ap: not applicable
N/Av: not available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
RCRA: US Resource Conservation and Recovery Act
RTECs: Registry of Toxic Effects of Chemical Substances
SARA: US Superfund Amendments & Reauthorization Act
STEL: Short Term Exposure Limit
TCC: Tag Closed Cup
TLV: Threshold Limit Values
TWA: Time Weighted Average
TSCA: Toxic Substance Control Act
WHMIS: Canadian Workplace Hazardous Materials Identification System

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
2. International Agency for Research on Cancer Monographs, searched 2007.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2007 (Chempendium and RTECs).
4. Material Safety Data Sheet from manufacturer.
5. US EPA Title III List of Lists – January 27, 2005 version.
6. California Proposition 65 List – December 8, 2006 version.

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