MATERIAL SAFETY DATA SHEET

MSDS Name: 3112 Calibration Fluid Type II
Product Code: CF3112II
Suffix Number 0001
MSDS Revision Date: 03-30-00

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	3112 Calibration Fluid Type II
CAS Number	N/A - Mixture
Hazard Rating:	Health: 1 Fire: 1 Reactivity: 0 PPI:
Company Identification:	Rock Valley Oil & Chemical Co. I911 Windsor Road Rockford IL 61111
Telephone/Fax:	(815) 654-2400 (815) 654-2428
Emergency Phone (Days Only):	(815) 654-2400
INFOTRAC (In-transit only):	800-535-5053 24 Hour
Preparer	Claude Ingrassia MSDS Coordinator
Product Class	Calibration fluid
Trade Name	3112 Calibration Fluid Type II
Product Code	CF3112II

SECTION 2 - HAZARDOUS INGREDIENTS

Ingredient Name	CAS Number	Percent	TSCA
Hydrocarbon distillate	64742-46-7	30 - 60	Y
HMIS Health: 1 Fire:1 Reactivity:0 PPI: ____			
Overbased calcium sulfonate	68783-96-0	1 - 5	Y
HMIS Health: 2 Fire:1 Reactivity:0 PPI: ____			
Alkenyl ester sulfide	61790-49-6	1 - 5	Y
HMIS Health: 1 Fire:1 Reactivity:0 PPI: ____			
Oxidation inhibitor	68649-42-3	1 - 4	Y
HMIS Health: 3 Fire:1 Reactivity:0 PPI: ____			

Additional Comments:
These ingredients are considered to be hazardous products under the OSHA Hazard Communication Standard (29 CFR 1910.1200). Their hazards are:

Immediate (Acute) health hazard.
Delayed (Chronic) health hazard.

SECTION 3 - PHYSICAL DATA

Form:	Liquid
Appearance/Color:	Amber
Odor:	Kerosine-like odor
pH Value:	Not Available
Boiling Range/Point:	380.°F - 581.°F
Vapor Pressure (mmHg):	Approximately 0.2@ 68.°F
Evaporation Rate:	0.078 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile	0.%
Specific Gravity:	0.86938

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flammability Class	IIIB
Flash Range/Point:	210.°F - 374.°F Tag Open Cup
Explosive Range:	N/D

EXTINGUISHING MEDIA:
Carbon Dioxide---Dry Chemical---Foam---Water Fog
Use water for cooling any material stored in the vicinity of the fire.
SPECIAL FIREFIGHTING PROCEDURES:
Recommend self-contained breathing apparatus with a full facepiece operated in a pressure-demand mode and full body protective clothing. Treat as an oil fire.
UNUSUAL FIRE & EXPLOSION HAZARDS:
When heated above flash point, this material will release flammable vapors which can burn or be explosive. Heavy vapors can travel to a source of ignition and flash back. Mists or sprays may be flammable at temperatures below flash point.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
Eyes: May cause mild eye irritation redness, tearing, blurred vision.
Skin: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.
Breathing: Excessive inhalation of vapors and/or spraymist can cause

respiratory irritation, dizziness, weakness, fatigue, nausea, headache, unconsciousness and even asphyxiation.
Swallowing: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

FIRST AID:

Eyes: Flush with large amounts of water lifting eyelids occasionally. Get prompt medical attention.
Skin: Wash thoroughly with soap and water; remove contaminated clothing promptly. Wash clothing before reuse.
Swallowing: DO NOT induce vomiting! Keep person warm, quiet and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.
Breathing: Move affected person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.
ADDITIONAL INFORMATION: Material may liberate hydrogen sulfide gas (CAS No.=7783-06-4). OSHA PEL=10ppm, ACGIH TLV=10ppm.
NOTE TO PHYSICIAN: Hydrogen sulfide ion is strongly bound to methemoglobin in a manner similar to cyanide. A dose of sodium nitrate would produce methemoglobin in the blood which would then partially inactivate this poison.

SECTION 6 - REACTIVITY DATA

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY

Avoid contact with strong oxidizers (e.g. nitric acid).

CONDITIONS TO AVOID:

Keep away from heat and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS:

May form carbon monoxide, carbon dioxide, various hydrocarbons, etc.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SMALL SPILL: Keep away from ignition sources (electrical, hot surfaces, etc.). Pick up spill with absorbent material.
LARGE SPILL: Contain spill to avoid entry into drains, sewers or waterways. Ventilate and keep traffic from area. Remove with absorbent material (or flush or vacuum) to closed container.

WASTE DISPOSAL METHOD:
Recovered material should be packaged, labeled, transported, disposed of or reclaimed in compliance with applicable laws and regulations and in conformance with good safety and engineering practices. Reclaim where possible.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Hydrocarbon distillate	5.00 mg/M3	N/est	10.00 mg/M3	N/est	5.00 mg/M3
Overbased calcium sulfonate	5.00 mg/M3	N/est	10.00 mg/M3	10.00 mg/M3	5.00 mg/M3
Alkenyl ester sulfide	N/est	N/est	N/est	N/est	N/est
Oxidation inhibitor	N/est	N/est	N/est	N/est	N/est

PERMISSIBLE EXPOSURE LEVEL:
Observe ACGIH TLV of 5 mg/m3 for oil mists.
RESPIRATORY PROTECTION:
If the TLV of the product is exceeded, a NIOSH approved air supply respirator is advised in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure. Select respirators based on form and concentration of contaminant in air. Adhere to 29 CFR 1910.134.
VENTILATION:
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV.
PROTECTIVE GLOVES:
Chemical/solvent resistant for prolonged contact.
EYE PROTECTION:
Chemical splash goggles in compliance with OSHA regulations are advised (consult your safety equipment supplier).
OTHER PROTECTIVE EQUIPMENT:
Boots, aprons, chemical resistant suits where deemed necessary to avoid contact during prolonged exposure.

SECTION 9 - SPECIAL PRECAUTIONS