

**MATERIAL SAFETY DATA SHEET**

This MSDS is compatible with ISO 11014 – 1:2002 and conforms to ANSI standard Z400.1/Z129.1-2010.

**SAFETY DATA SHEET**

This SDS complies with REACH 1907/2006, 2001/58/EC, and GHS

**Section 1: Chemical Product and Company Identification**

**MANUFACTURE COMPANY NAME**

Spectrex Corporation  
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Redwood City, California 94063  
Information: 650-365-6567  
Fax: 650-365-5845

DATE PREPARED: June 2011

PRODUCT NAME: Calibration Standard  
CHEMICAL NAME: Mixture  
FORMULA: Preparation/Mixture  
PRODUCT USE: Oil Standard for Spectrex Laser Particle Counter

**Section 2: Hazards Identification**

**GHS Hazard Class** Not Applicable

Signal word:

Hazard Statement:

Precautionary Statements: Prevention No Precautionary statement  
Response No Precautionary statement  
Storage No Precautionary statement  
Disposal No Precautionary statement

HAZARD CLASSIFICATION: Not Classified As Hazardous Based On IMO and DOT.  
FIRE AND EXPLOSION: Not considered flammable or combustible, but this product will burn if involved in a fire. Product emits toxic fumes when burned.

**POTENTIAL HEALTH EFFECTS:**

INGESTION: Unknown on product  
INHALATION: Unknown on product  
SKIN CONTACT: No effects are expected  
EYE CONTACT: Eye Irritation May Result  
OTHER: None  
CHRONIC EFFECTS OF OVEREXPOSURE: None  
APPEARANCE: Pink Liquid Oil

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Calibration Standard	1	0	0	--

### Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPRX %	ACGIH TLV	OSHA PEL	NIOSH REL	CAS NO.	EINECS/ ELINCS	DANGER SYMBOL	RISK PHRASE	DSL CANADA
Johnson's Baby Oil	90	-----	-----	-----	-----	-----	-----	-----	-----
Conostan (light naphthenic oil)	10	5 mg/m3 TLV 10 mg/m3 STEL	5 mg/m3	5mg/m3	64742-53-6	Y/N	T	R45	Y

Trade Secret (TS) Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13. The full text for all R-Phrases is shown in Section 16.

### Section 4: First Aid Measures

**INHALATION:** Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.

**SKIN CONTACT:** Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**INGESTION:** If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

### Section 5: Fire-fighting Measures

**FLASH POINT:** Not applicable

**FLAMMABLE LIMITS IN AIR (% by vol):** Not applicable

**EXTINGUISHING MEDIA:** None

**SPECIAL FIREFIGHTING PROCEDURES:** None

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Material does not burn. Use extinguishing agent suitable for the type of surrounding fire.

### Section 6: Accidental Release Measures

**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Wear proper protective equipment as specified in Section 8: Exposure Controls/Personal Protection  
Warn other workers of spill and contain spill.  
Recover spill by using absorbent and sweeping up waste material.  
Place material into a chemical waste container.  
Eliminate all sources of ignition and ventilate area.  
Prevent spills or contaminated rinse water from entering sewers or watercourses.

Disposal method: disposal should be made in accordance with federal, state and local regulations as stated in Section 13.

### Section 7: Handling and Storage

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Keep Container Closed When Not In Use.  
Keep away from heat, and flame.  
Wear proper protective equipment.  
Wash hands after handling this material.  
Follow all applicable local regulations for handling and storage.

**INFORMATION ON EMPTIED CONTAINER:** Not applicable

SPECIFIC USES: This product is intended for use as a calibration standard.

## Section 8: Exposure Controls/Personal Protection

### EXPOSURE GUIDELINES

EXPOSURE LIMITS

Reference Section 2

VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

SPECIAL VENTILATION CONTROLS:

None required

RESPIRATORY PROTECTION:

None required

PROTECTIVE GLOVES:

Plastic film or rubber gloves

EYE PROTECTION:

Safety Glasses, Chemical Goggles, or Face shield

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

OTHER EQUIPMENT:

Make safety shower, eyewash stations and hand washing equipment available in the work area.

WORK/HYGIENE PRACTICES:

Avoid contact with eyes. Wash hands and face after handling.

## Section 9: Physical and Chemical Properties

APPEARANCE - COLOR:

Pink

PHYSICAL STATE:

Liquid Oil

ODOR:

Slight lavender smell (Johnson's Baby Oil)

### PRODUCT CRITERIA

PH	Not Available for product
FLASH POINT:	Not determined.
FLAMMABILITY (Solid, gas)	Not Available for product
EXPLOSIVE PROPERTIES	Not Available for product
OXIDIZING PROPERTIES	Not Available for product
SPECIFIC GRAVITY (@25 °C):	Not Available for product
EVAPORATION RATE:	Not Available for product
% VOLATILE by VOLUME	Not Available for product
PARTITION COEFFICIENT n-Octanol/Water	Not Available for product
BOILING POINT:	Not Available for product
MELTING POINT:	Not Available for product
VAPOR PRESSURE	Not Available for product
VAPOR DENSITY (AIR = 1)	Not Available for product
SOLUBILITY IN WATER:	Not Available for product
WATER SOLUBILITY IN THE SOLVENT	Not Available for product
FREEZING POINT:	Not Available for product
VISCOSITY	Not Available for product

## Section 10: Stability and Reactivity

STABILITY:

Stable under recommended storage conditions.

CONDITIONS TO AVOID:

Extreme temperatures

INCOMPATIBILITY (MATERIALS TO AVOID):

None

HAZARDOUS DECOMPOSITION PRODUCTS:

None

HAZARDOUS POLYMERIZATION:

Will not occur

## Section 11: Toxicological Information

GHS Required Criteria	Toxicity Criteria Constituent	Toxicity Information	Comments	Chemical
Acute Toxicity		No information is available.		
Skin Corrosion/Irritation		No information is available.		
Serious Eye Damage / Eye Irritation		No information is available.		
Respiratory or Skin		No information is available.		

Sensitization				
Germ Cell Mutagenicity		No information is available.		
Carcinogenicity		Not listed	NTP	
		Not listed	IARC	
		Not listed	OSHA	
Reproductive Toxicity		No information is available.		
STOST -- Single Exposure		No information is available.		
STOST -- Repeated Exposure		No information is available.		
Aspiration Hazard		No information is available.		

STOST = Specific Target Organ Systemic Toxicity

OTHER INFORMATION: Target Organ(s): Administration of certain mineral hydrocarbon white oils in the diet to Fischer rats at 1500 mg/kg/day for 90 days resulted in the formation of microgranulomas in the liver. However, this response was not observed in studies conducted with other rat strains or dogs. Microgranulomas like those observed in the Fischer 344 rat studies have not been observed in humans.

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

## Section 12: Ecological Information

Chemical

BIODEGRADATION:	No information is available.	
BIOACCUMULATION:	No information is available.	
ECO TOXICITY:	No information is available.	
MOBILITY:	No information is available.	

## Section 13: Disposal Considerations

WASTE FROM RESIDUES / UNUSED PRODUCTS:

Follow the waste disposal requirements of your country, state, or local authorities.

CONTAMINATED PACKAGING:

Contaminated packaging material should be disposed of as stated above for residues and unused product.

RINSATE: Do not dispose of rinse water containing product in a sanitary sewer system, storm water drainage system, or wastewater treatment system.

## Section 14: Transport Information

**DOT TRANSPORT:**

DOT PROPER SHIPPING NAME Not Regulated

**ADR = International Carriage of Dangerous Goods by Road**

Not Regulated

**RAIL TRANSPORT:**

Not Regulated

**SEA TRANSPORT:**

Not Regulated

**AIR TRANSPORT:**

IATA/ICAO CLASS: Not Regulated

## Section 15: Regulatory Information

LABEL FOR SUPPLY:



IRRITANT

R-Phrase:

R36

Irritating to Eyes

S-Phrase:

S25

Avoid contact with Eyes

**TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:**

**This product is in compliance with rules, regulations, and orders of TSCA. All components are listed on the TSCA Inventory.**

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:**

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

**CALIFORNIA PROPOSITION 65:**

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

**STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:**

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	Not listed
New Jersey	Not listed
Illinois	Not listed
Michigan	Not listed

**CANADA:**

This MSDS/SDS will be non compliant 3 years after the issue date.

**WHMIS-INFORMATION:** The chemical components of this product are in compliance with the WHMIS regulations.

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

**EUROPEAN UNION:**

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Directive 67/548/EEC, Directive 2001/59/EC, Directive 91/155/EC, and Directive 2001/58/EC.

## **Section 16: Other Information**

**European Community Hazards Identification:**

R: 45                      May cause cancer  
S: (2-)                    Keep out of the reach of children.  
S: 53                      Avoid exposure – obtain special instructions before use.  
S: 45                      In case of accident or if you feel unwell, seek medical advice immediately.  
Danger Symbol(s):      T Toxic  
Revision Comments:    Updated from: Initial version  
Revision Number:       0  
Information Sources:    Updated to EU REACH and GHS requirements

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