Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name: ULTRACENTRIFUGE HIGH SPEED DRIVE OIL
Part Number: 30241

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use: For laboratory use. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

EC REP Address: Beckman Coulter Eurocenter S.A.
22, rue Juste-Oliver, Case Postale 1044,
CH-1260 Nyon 1, Switzerland.
Telephone +41 (0)22 365 36 11
Monday through Friday, 9:00 am to 7:00 pm

e-mail address: SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H): Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Distributor and Emergency Phone No.: Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description: Mixture
Amber; Translucent; Liquid; Mild odor

Classification according to EC 1272/2008 (CLP/GHS): Not classified as hazardous per EC 1272/2008 (CLP/GHS)

Classification according to EC Directives 1999/45/EC and 67/548/EEC: Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS: Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS: Not classified as hazardous per EC 1272/2008 (CLP/GHS)
Section 2 Hazards Identification (Continued)

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients: None

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation: If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact: If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

Skin Contact: In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

Ingestion: If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

5.1 Extinguishing Media

For large fires use extinguishing media suitable for surrounding fire. In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

Hazardous Combustion Products

Combustion products may include oxides of carbon and nitrogen.
Section 5 Fire Fighting Measures (Continued)

5.3 Advice for firefighters
Protective Equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal Precautions No special precautions are necessary. Use good laboratory procedures.

6.2 Environmental Precautions
Contain spill to prevent migration.
Do not allow the undiluted product to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up
Spill and Leak Procedures
Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling No special precautions are necessary; use good laboratory procedures.

7.2 Conditions for safe storage, including any incompatibilities
To maintain product quality, store according to the instructions in the product labeling.
Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters
Exposure Limits
US OSHA None established
ACGIH None established
DFG MAK None established
Ireland None established
IOELVs None established
NIOSH None established
Japan None established

8.2 Exposure controls
Engineering Controls No special engineering controls are required. Use with good general ventilation.
Section 8 Exposure Controls and Personal Protection (Continued)

Eye Protection
Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection
Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Respiratory Protection
Under normal conditions, the use of this product should not require respiratory protection.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
<th>Specific Gravity (Water=1.0)</th>
<th>0.87 @20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Amber</td>
<td>Solubility</td>
<td></td>
</tr>
<tr>
<td>Transparency</td>
<td>Translucent</td>
<td>Water</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild odor</td>
<td>Organic</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
<td>Partition coefficient: n-octanol/water</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not applicable</td>
<td>Auto-ignition Temp.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;316°C (600.8°F)</td>
<td>Decomposition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;207°C (404.6°F)</td>
<td>Percent Volatiles</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not applicable</td>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>Not applicable</td>
<td>Explosive Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td>Oxidizing Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other Information
No further relevant information available.

Section 10 Stability and Reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical Stability
The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions
No further relevant information available.
Section 10 Stability and Reactivity (Continued)

10.4 Conditions to Avoid
To maintain product performance keep away from strong acids, strong bases, strong oxidizers.
Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous Decomposition Products
No decomposition products posing significant hazards would be expected from this product.

Section 11 Toxicological Information

11.1 Information on toxicological effects
Toxicity Data for Hazardous Ingredients
Not applicable

Primary Routes of Exposure
Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory/skin sensitization
No data available.

Carcinogenicity
No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

Germ cell mutagenicity
No data available.

Reproductive Toxicity
No data available.

Specific target organ toxicity – single exposure
No data available.

Specific target organ toxicity – repeated exposure
No data available.

Aspiration hazard
No data available.

Other Information
No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity
Fresh Water Species
No information available.
Microtox
No information available.
Water Flea
No information available.
Fresh Water Algae
No information available.

12.2 Persistence and degradability
Not determined for the product.
Section 12 Ecological Information (Continued)

12.3 Bioaccumulation
Not determined for the product.

12.4 Mobility in soil
Not determined for the product.

12.5 Results of PBT and vPvB assessment
Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other Adverse Effects
No further relevant information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods
Product Waste Disposal
Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal
Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information
Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
US Federal and State Regulations
SARA 313
No ingredients listed.
California Proposition 65
No ingredients listed.
Massachusetts MSL
No ingredients listed.
New Jersey Dept. of Health RTK List
No ingredients listed.
Pennsylvania RTK
No ingredients listed.

EU Regulations
This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.
REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.
No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)
Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)
Section 15 Regulatory Information (Continued)

Canada
This product does not meet WHMIS criteria for hazardous materials.

PIN
Not applicable

Ingredients on Ingredient Disclosure List
None

Ingredients with unknown toxicological properties
None

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out.
Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Beckman Coulter Safety Rating

<table>
<thead>
<tr>
<th>Flammability: 0</th>
<th>Health: 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity with Water: 0</td>
<td>Contact: 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0=None</td>
</tr>
<tr>
<td>1=Slight</td>
</tr>
<tr>
<td>2=Caution</td>
</tr>
<tr>
<td>3=Severe</td>
</tr>
</tbody>
</table>

Revision Changes
Updated to GHS.

Abbreviations and Acronyms
ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany’s maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions’ Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System

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Global SDS – English
Section 16 Other Information (Continued)

vPvB - Very persistent and very bioaccumulative substances

For further information, please contact your local Beckman Coulter, Inc. representative.

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