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

1.1 Product Identifier
   - Product Name: LIFluor Enhance
   - Part Number: 477409

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Product Use: For laboratory use only

1.3 Details of the supplier of the safety data sheet
   - Manufacturer:
     SCIEX
     500 Old Connecticut Path
     Framingham, MA 01701, U.S.A.
     Tel: (877) 740-2129

   - Australia:
     AB SCIEX Australia Pty Ltd
     PO BOX 514
     Mt Waverley, Victoria 3149, Australia
     Tel: 1300 62 7777

   - Canada:
     AB SCIEX LP
     71 Four Valley Drive
     Concord, ON L4K4V8, Canada
     Tel: (905) 660-9005

   - People's Republic of China:
     Shanghai Sciex Analytical Instrument Trading Co.
     5F Bldg #1, 518 North Fuquan Road
     IBP, Changning District
     Shanghai, PRC 200335
     Tel: 800 820 3488

   - Japan:
     K.K. AB SCIEX
     Gotenyama Trust Tower 21 F
     4-7-35 Kitashinagawa, Shinagawa-ku
     Tokyo 140-0001, Japan
     Tel: 0120-318-551 / Fax: 0120-318-040

   - United Kingdom:
     AB Sciex UK Limited
     Phoenix House
     Lakeside Drive, Centre Park
     Warrington, Cheshire
     WA1 1RX, United Kingdom
     Tel: 00800 2255 2279

   - e-mail address:
     msds.inquiry@sciex.com

1.4 Emergency telephone number
   - Telephone number (24H): CHEMTREC : 1-800-424-9300 (24H) 1-877-740-2129 (8:30A ET - 5:00P ET)
Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description
Mixture
Orange; Clear; Liquid; Slight alcohol odor

Classification according to EC 1272/2008 (CLP/GHS)
- Flammable Liquids, Category 2
- Acute Toxicity Oral, Category 3
- Acute Toxicity Dermal, Category 3
- Acute Toxicity Inhalation, Category 3
- Specific Target Organ Toxicity Single Exposure Category 1

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS
- Flammable Liquids, Category 2
- Acute Toxicity Oral, Category 3
- Acute Toxicity Dermal, Category 3
- Acute Toxicity Inhalation, Category 3
- Specific Target Organ Toxicity Single Exposure Category 1

2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients
Methanol

Pictogram

Signal Word
DANGER

Hazard Statements
- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.
- H370 Causes damage to organs.

Precautionary Statements
- P210 Keep away from heat, hot surfaces, and sparks. No smoking.
- P233 Keep container tightly closed.
- P240 Ground container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharge.
- P261 Avoid breathing vapours.
- P270 Do no eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, protective clothing and eye/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.
Section 2 Hazards Identification (Continued)

P304+P340  IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P308+P311  If exposed or concerned: Call a doctor/physician.

P311  Call a POISON CENTER or doctor/physician.

P330  Rinse mouth.

P361+P364  Take off immediately contaminated clothing and wash it before use

P370+P378  In case of fire: Use water spray for extinction.

P403+P233  Store in a well-ventilated place. Keep container tightly closed.

P403+P235  Store in a well-ventilated place. Keep cool.

P405  Store locked up.

P501  Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

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

<table>
<thead>
<tr>
<th>Hazardous Ingredients:</th>
<th>Hazard Classification of Pure Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>% by wt.</td>
</tr>
<tr>
<td>Methanol</td>
<td>&gt; 90</td>
</tr>
<tr>
<td>CAS # 67-56-1</td>
<td></td>
</tr>
<tr>
<td>EINECS # 200-659-6</td>
<td></td>
</tr>
<tr>
<td>Index # 603-001-00-X</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for description of hazard class and hazard statements

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 by trained personnel and obtain medical attention immediately.

Eye Contact If product enters eyes, rinse eyes gently with water as a precaution.

Skin Contact In case of skin contact, rinse with water as a precaution.

Ingestion If product is ingested, rinse mouth with water. Do not induce vomiting or give anything by mouth. Obtain medical attention immediately.
Section 4 First Aid Measures (Continued)

4.2 Most important symptoms and effects, both acute and delayed
- Toxic if swallowed.
- Toxic in contact with skin.
- Toxic if inhaled.
- Causes damage to organs.

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available. Refer to Section 4.1.

Section 5 Fire Fighting Measures

5.1 Extinguishing Media
In case of fire, use Class B fire extinguishers.

5.2 Special hazards arising from the substance or mixture
Special Fire and Explosion Hazards
- Highly flammable liquid and vapour.
- Hazardous Combustion Products
  - No combustion products posing significant hazards are expected from this product.

5.3 Advice for fire fighters
- 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
- Observe general safety guidelines for protection; avoid eye and skin contact.
- Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions
- Contain spill to prevent migration or evaporation.
- 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
- Ventilate area. Remove all sources of ignition. Contain spill and collect with inert absorbent and place in a suitable container for disposal.

6.4 Reference to other sections
Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling
- Avoid inhaling, ingesting, and contact with eyes and skin.
- Avoid sparks or flames.
Section 7 Handling and Storage (Continued)

7.2 Conditions for safe storage, including any incompatibilities

Keep away from excessive heat, sparks or open flame. 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
Methanol
CAS # 67-56-1
200 ppm TWA; 260 mg/m3 TWA

ACGIH
Methanol
CAS # 67-56-1
250 ppm STEL; 200 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route

DFG MAK
Methanol
CAS # 67-56-1
Skin notation; 800 ppm Peak; 1080 mg/m3 Peak; 200 ppm TWA MAK; 270 mg/m3 TWA MAK

Ireland
Methanol
CAS # 67-56-1
200 ppm TWA; 260 mg/m3 TWA; 600 ppm STEL (calculated); 780 mg/m3 STEL (calculated); Potential for cutaneous absorption

IOELVs
Methanol
CAS # 67-56-1
Possibility of significant uptake through the skin; 200 ppm TWA; 260 mg/m3 TWA

NIOSH
Methanol
CAS # 67-56-1
6000 ppm IDLH; 250 ppm STEL; 325 mg/m3 STEL; 200 ppm TWA; 260 mg/m3 TWA

Japan
Methanol
CAS # 67-56-1
200 ppm OEL; 260 mg/m3 OEL

Sweden (AFS 2015:7 and amendments)
Methanol
CAS # 67-56-1
200 ppm TLV; 250 mg/m3 TLV; 250 ppm Indicative STEL; 350 mg/m3 Indicative STEL; Skin notation

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
Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN166 or appropriate government standards.

Respiratory Protection
Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Specific Gravity (Water=1.0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>≈ 0.8</td>
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</table>

<table>
<thead>
<tr>
<th>Color</th>
<th>Solubility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>Water</td>
</tr>
<tr>
<td></td>
<td>Soluble</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Transparency</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td>Slight alcohol odor</td>
</tr>
<tr>
<td></td>
<td>Organic</td>
</tr>
<tr>
<td></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>pH</th>
<th>Partition coefficient: n-octanol/water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Freezing Point</th>
<th>Auto-ignition Temp.</th>
<th>Decomposition Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>-94°C (-137.2°F)</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Percent Volatiles</th>
<th>Vapor Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>65°C (149°F)</td>
<td>Not determined</td>
<td>97 mm Hg @20°C</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Evaporation Rate</th>
<th>Flammability (Solid, Gas)</th>
<th>Flammability Limits</th>
<th>Vapor Density</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>12°C (53.6°F)</td>
<td>Not determined</td>
<td>Not applicable</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Methanol 3.05 ppm odor threshold value (detectable)</td>
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</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
When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Dermal LD50 Rabbit</th>
<th>Inhalation LC50 Rat</th>
<th>Oral LD50 Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>15840 mg/kg</td>
<td>22500 ppm 8 h</td>
<td>6200 mg/kg</td>
</tr>
</tbody>
</table>

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

Acute Toxicity
Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Skin Corrosion/Irritation
Not classified based on available data.

Serious eye damage/eye irritation
Not classified based on available data.

Respiratory/skin sensitization
Not classified based on available data.

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

Germ cell mutagenicity
Not classified based on available data.

Reproductive Toxicity
Not classified based on available data.

Specific target organ toxicity – single exposure
Causes damage to organs.

Specific target organ toxicity – repeated exposure
Not classified based on available data.

Aspiration hazard
Not classified based on available data.

Other Information
No further relevant information available.
Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Methanol
CAS # 67-56-1

96 h LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 h LC50 Pimephales promelas: >100 mg/L [static]; 96 h LC50 Oncorhynchus mykiss: 19500 - 20700 mg/L [flow-through]; 96 h LC50 Oncorhynchus mykiss: 18 - 20 mL/L [static]; 96 h LC50 Lepomis macrochirus: 13500 - 17600 mg/L [flow-through]

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.

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.

13.2 Additional information
Suggested European waste catalogue 18 01 06* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information

<table>
<thead>
<tr>
<th>Shipping Information</th>
<th>IATA</th>
<th>IMDG</th>
<th>US DOT</th>
<th>European ADR</th>
<th>Canadian TDG</th>
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</thead>
<tbody>
<tr>
<td>14.1 UN/ID Number</td>
<td>1230</td>
<td>1230</td>
<td>1230</td>
<td>1230</td>
<td>PIN - 1230</td>
</tr>
<tr>
<td>14.2 Shipping Name</td>
<td>Methanol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.3 Hazard Class</td>
<td>3 Flammable Liquids</td>
<td>3 Flammable liquids</td>
<td>3 Flammable liquid</td>
<td>3 Flammable Liquids</td>
<td>3 Flammable Liquids</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>6.1 Toxic substances</td>
<td>6.1 toxic substances</td>
<td>6.1 Poisonous materials</td>
<td>6.1 Toxic substances</td>
<td>6.1 Toxic substances</td>
</tr>
<tr>
<td>Classification Code</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>FT1</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4 Packing Group</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>A113</td>
<td>279</td>
<td>Not applicable</td>
<td>279</td>
<td>43</td>
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</table>
Section 14 Transport Information (Continued)

Additional information

<table>
<thead>
<tr>
<th>IATA ERG Code</th>
<th>EmS</th>
<th>NAERG Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3L</td>
<td>F-E, S-D</td>
<td>131</td>
</tr>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

14.5 Environmental Hazards

| Marine Pollutant | Not applicable | No | Not applicable | Not applicable | Not applicable |

14.6 Special Precautions for user

Warning: Flammable liquid.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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 (Section 313, Title III reporting requirements)

CAS # 67-56-1 Methanol 1.0% de minimis concentration

CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4

CAS # 67-56-1 Methanol

California Proposition 65

⚠️ WARNING This product can expose you to chemical which is known to the State of California to cause cancer and/or reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical which is known to the State of California to cause cancer

No ingredients listed.

Chemical which is known to the State of California to cause development toxicity

CAS # 67-56-1 Methanol

Chemical which is known to the State of California to cause male reproductive toxicity

No ingredients listed.

Chemical which is known to the State of California to cause female reproductive toxicity

No ingredients listed.

Massachusetts Right To Know (RTK) List

CAS # 67-56-1 Methanol
Section 15 Regulatory Information (Continued)

New Jersey Dept. of Health Right To Know (RTK) List
CAS # 67-56-1 Methanol

Pennsylvania Right To Know (RTK) List
CAS # 67-56-1 Methanol

EU Regulations
This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany)
WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.
No ingredients listed.

Canada
This product meets WHMIS criteria for hazardous materials

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out.
Some hazardous ingredients listed in Section 15 are below the cutoff limits of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

Section 16 Other Information

<table>
<thead>
<tr>
<th>Safety Ratings</th>
<th>Flammability: 3</th>
<th>Health: 3</th>
<th>Reactivity with Water: 0</th>
<th>Physical Contact: 3</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0= None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1= Slight</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2= Caution</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3= Severe</td>
</tr>
</tbody>
</table>

Revision Changes
Updated Section 1.
Updated Section 5.
Updated Section 11.
Updated Section 14.
Updated Section 15.
Updated Section 16.

Document version and issue/revision date
Revision Date (year/month/day) 2019/07/30
Last Revision Date (year/month/day) 2018/04/13
Document ID: 477409-75
Version: AH

Description of hazard Class and hazard statements from Section 3
Acute Tox. Dermal 3 - Acute Toxicity Dermal, Category 3
Acute Tox. Inhal. 3 - Acute Toxicity Inhalation, Category 3
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3
Flam. Liq. 2 - Flammable Liquids, Category 2
STOT SE 1 - Specific Target Organ Toxicity Single Exposure Category 1
H225 - Highly flammable liquid and vapour.
Section 16 Other Information (Continued)

H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H331 - Toxic if inhaled.
H370 - Causes damage to organs.
H370 - Causes damage to organs (Respiratory system)
H370 - Causes damage to organs (Liver and Kidney)
H370 - Causes damage to organs (Kidney)
H370 - Causes damage to organs (Liver)

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail
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 DGR - International Air Transport Association Dangerous Goods Regulation
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
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%

For further information, please contact your local SCIEX representative.

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