Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Name  CL080, CL090
Contains 1-Decene, dimer, hydrogenated

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use  Viscometer and/or density measurement equipment calibration and performance verification reference standard
Uses advised against  No information available

1.3. Details of the supplier of the safety data sheet
Supplier  Cannon Instrument Company
2139 High Tech Rd.
State College, PA 16803-1733
TEL: (814) 353-8000; (800) 676-6232
For further information, please contact
E-mail Address  No information available

1.4. Emergency telephone number
Emergency Telephone  (800) 255-3924 Domestic CHEM-TEL Inc.
Number  +1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)
Europe  112

Section 2. Hazards identification

2.1. Classification of the substance or mixture
REGULATION (EC) No 1272/2008
Aspiration Toxicity  Category 1
Acute Inhalation Toxicity - Dusts and Mists  Category 4

Physical Hazards
None

2.2. Label Elements

Signal Word  Warning
Hazard Statements  
H332 - Harmful if inhaled
H304 - May be fatal if swallowed and enters airways

Precautionary Statements - EU (§28, 1272/2008)
Section 3. Composition/information on ingredients

3.1. Substances

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>-</td>
<td>68037-01-4</td>
<td>75-95</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>1-Decene, dimer, hydrogenated</td>
<td>-</td>
<td>68649-11-6</td>
<td>5-25</td>
<td>Asp. Tox. 1 (H304) Acute Tox. 4 (H332)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact
Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention if irritation persists.

Skin Contact
Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. Get medical attention if symptoms occur.

Ingestion
Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention.

Inhalation
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.

Protection of First-aiders
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects
Drowsiness. Dizziness. Irritation.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons
No information available.

5.2. Special hazards arising from the substance or mixture
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
None in particular.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

6.4. Reference to other sections
See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling
Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end use(s)
Exposure Scenario
No information available.

Other Guidelines
No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Finland</th>
<th>France</th>
<th>Germany</th>
<th>Gibraltar</th>
<th>Greece</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, dimer, hydrogenated 68649-11-6</td>
<td></td>
<td></td>
<td>TWA: 5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ceiling / Peak: 20 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repr*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
8.2. Exposure controls

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Personal protection equipment should be chosen according to the CEN standards
- Safety glasses with side-shields.
- Long sleeved clothing.
- Protective gloves.
- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental Exposure Controls
No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td>None known</td>
</tr>
<tr>
<td>Odor</td>
<td>Faint hydrocarbon</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 160 °C</td>
<td>Closed cup</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available.</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available.</td>
<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available, 0.81-0.82</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water.</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Soluble in solvents.</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>&gt;6.5</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available.</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>10-15 cSt @ 40°C</td>
<td>None known</td>
</tr>
</tbody>
</table>

Explosive Properties
No information available

Oxidizing Properties
No information available

9.2. Other information

VOC Content (%)
No information available

Section 10. Stability and reactivity

10.1. Reactivity
Not reactive under normal conditions

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials
Strong oxidizing agents.
10.6. Hazardous decomposition products
None under normal use.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Inhalation
Harmful by inhalation. Inhalation of mist may cause irritation to the respiratory system.

Eye Contact
Contact with eyes may cause irritation.

Skin Contact
No known hazard in contact with skin. Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated contact may dry skin and cause irritation.

Ingestion
Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute Toxicity
186% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, dimer, hydrogenated</td>
<td>99,999.00 mg/kg</td>
<td>99,999.00 mg/kg</td>
<td>1.17 mg/L (rat 4-hr)</td>
</tr>
</tbody>
</table>

Respiratory or Skin Sensitization
No information available

Mutagenic Effects
No information available

Carcinogenic Effects
Contains no ingredient listed as a carcinogen

Reproductive Toxicity
No information available

Developmental Toxicity
No information available

STOT - single exposure
No information available

STOT - repeated exposure
No information available

Target Organ Effects
Skin. Eyes. Respiratory system.

Aspiration Hazard
No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td></td>
<td>LC50 Rainbow trout: &gt;1000 mg/L (96-hr)</td>
<td></td>
<td>EC50: 190 mg/L (48-hr)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available

12.3. Bioaccumulative potential
No information available

12.4. Mobility in soil
12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

- **Waste from Residues / Unused Products**: Dispose of in accordance with local regulations.
- **Contaminated Packaging**: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

**Note:** The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

**IMDG/IMO**

14.1. UN-Number: Not regulated.
14.2. Proper Shipping Name: Not regulated.
14.4. Packing Group Description: Not applicable.
14.5. Marine Pollutant: None
14.6. Special Provisions: None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: No information available.

**RID**

14.1. UN-Number: Not regulated.
14.2. Proper Shipping Name: Not regulated.
14.4. Packing Group Description: Not applicable.
14.5. Environmental hazard: None
14.6. Special Provisions: None

**ADR**

14.1. UN-Number: Not regulated.
14.2. Proper Shipping Name: Not regulated.
14.4. Packing Group Description: Not applicable.
14.5. Environmental hazard: None
14.6. Special Provisions: None

**ICAO**

14.1. UN-Number: Not regulated.
14.2. Proper shipping name: Not regulated.
14.4. Packing Group Description: Not applicable.
14.5. Environmental hazard
None

None

IATA
14.1. UN-Number
Not regulated.
14.2. Proper Shipping Name
Not regulated.
14.3. Hazard Class
Not regulated.
14.4. Packing Group
Not regulated.
Description
Not applicable.
14.5. Environmental hazard
None
None

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories
Contact supplier for inventory compliance status
TSCA
Complies
European Union
Complies
DSL/NDSL
Complies
PICCS
Complies
ENCS
Not determined
IECSC
Complies
AICS
Complies
KECL
Complies

PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment
No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3
H304 - May be fatal if swallowed and enters airways
H332 - Harmful if inhaled

Key literature references and sources for data
www.ChemADVISOR.com/

Issuing Date
24-Apr-2014

Revision Date
28-Dec-2017

Revision Note
Update to Format.


General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet