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

1.1. Product identifier

Product Name  N4
Contains 1-Decene, dimer, hydrogenated
Contains 1-Decene, dimer, hydrogenated, Tetradecane

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

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration Toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity - Dusts and Mists</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Physical Hazards  None

2.2. Label Elements

| Signal Word | Danger |

Hazard Statements  
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
Precautionary Statements - EU (§28, 1272/2008)
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P331 - Do NOT induce vomiting
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other information
Prolonged skin contact may defat the skin and produce dermatitis

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, dimer, hydrogenated</td>
<td>-</td>
<td>68649-11-6</td>
<td>70-80</td>
<td>Asp. Tox. 1 (H304) Acute Tox. 4 (H332)</td>
<td>No data available</td>
</tr>
<tr>
<td>Tetradecane</td>
<td>211-096-0</td>
<td>629-59-4</td>
<td>20-30</td>
<td>Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)</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. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.

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

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
Carbon dioxide (CO₂). Foam. Dry chemical. Water fog. Cool containers with flooding quantities of water until well after fire is out.

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
During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Sulfur oxides. Aldehydes.

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>
</table>

Revision Date 29-Aug-2017
Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level
No information available.

Predicted No Effect Concentration (PNEC)
No information available.

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

Eye Protection
Safety glasses with side-shields.

Skin and Body Protection
Long sleeved clothing.

Chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Respiratory Protection
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>pH</td>
<td>No data available</td>
<td>None known</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; 99 °C</td>
<td>Closed cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</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 0.79</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>No data available.</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>4 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
Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides. Sulfur oxides. Aldehydes.

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: Irritating to eyes.
Skin Contact: Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion: Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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>
<tr>
<td>Tetradecane</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td></td>
</tr>
</tbody>
</table>

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: May be fatal if swallowed and enters airways.

Section 12. Ecological information

12.1. Toxicity
Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.
12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetradecane</td>
<td>7.2</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No information available.

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 IMDG/IMO, RID, 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.
- **14.3. Hazard Class**: Not regulated.
- **14.4. Packing Group**: Not regulated.
- **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.
- **14.3. Hazard Class**: Not regulated.
- **14.4. Packing Group**: Not regulated.
14.5. Environmental hazard None
14.6. Special Provisions None

ADR
14.1. UN-Number Not regulated.
14.2. Proper Shipping Name Not regulated.
14.3. Hazard Class Not regulated.
   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.
14.3. Hazard Class Not regulated.
   Description Not applicable.
14.5. Environmental hazard None
14.6. Special Provisions None

IATA
14.1. UN-Number Not regulated.
14.2. Proper Shipping Name Not regulated.
14.3. Hazard Class Not regulated.
   Description Not applicable.
14.5. Environmental hazard None
14.6. Special Provisions None

## Section 15. Regulatory information

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

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>-</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
</tbody>
</table>

Legend
- TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
- EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
- 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
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled

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

Issuing Date 24-Apr-2014
Revision Date 29-Aug-2017
Revision Note (M)SDS sections updated: 3, 8.


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