SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Octadecane

Synonyms: n-Octadecane, A18T, A18 HP

Chemical Abstracts Registry No: 593-45-3

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

No data available.

1.3. Details of the supplier of the safety data sheet

Vertellus Health & Specialty Products LLC
215 North Centennial Street
Zeeland, MI 49464-1309   USA
1-800-223-0453
e-mail Address: sds@vertellus.com

1.4. Emergency telephone number

Vertellus: 1-800-223-0453
CHEMTREC (USA): 1-800-424-9300 (collect calls accepted)
CHEMTREC (International): 1-703-527-3887 (collect calls accepted)
NRCC (China): +86 532 83889090

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


Aspiration Hazard Category 1

2.2. Label elements

Hazard Symbols
(Pictogram):

Signal Word: Danger
Hazard Precautions: H304 - May be fatal if swallowed and enters airways.
First Aid Precautionary Statements: P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
# SAFETY DATA SHEET

## SECTION 3: Composition/information on ingredients

### 3.1. Substances or 3.2. Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Concentration (weight %)</th>
<th>EC Number</th>
<th>CLP Inventory/Annex VI</th>
<th>EU CLP Classification (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octadecane</td>
<td>593-45-3</td>
<td>90 - 100</td>
<td>209-790-3</td>
<td>Not listed</td>
<td>Asp. Tox. 1; H304</td>
</tr>
</tbody>
</table>

NOTE: See Section 8 for exposure limit data for these ingredients. See Section 15 for trade secret information (where applicable). See Section 16 for the full text of the R-phrases above.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- **Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. If irritation persists or other symptoms are observed, seek medical advice.
- **Eye Contact:** Immediately flush eyes with plenty of water for at least 20 minutes. Get immediate medical attention. Hold eyelids apart periodically while flushing.
- **Inhalation:** Remove to fresh air. If breathing is difficult give oxygen and seek medical attention.
- **Ingestion:** If swallowed, contact physician or poison control center immediately. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.

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

**Acute:** Risk of aspiration into the lungs during swallowing and vomiting; Not toxic by oral, dermal or inhalation routes. Not a sensitizer.

**Delayed Effects:** None known.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to Physician:** Aspiration of this substance into the lungs during vomiting may result in aspiration of the light hydrocarbon liquid, which may cause pneumonitis.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Appropriate Extinguishing Media: Carbon dioxide, Alcohol foam, Water fog

### 5.2. Special hazards arising from the substance or mixture

- **Hazardous Products of Combustion:** Carbon dioxide, Carbon monoxide
- **Potential for Dust Explosion:** Not applicable
- **Special Flammability Hazards:** None expected

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5.3. Advice for firefighters

Basic Fire Fighting Guidance: As in any fire, wear pressure-demand self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures: Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Special Instructions: See Section 8 for personal protective equipment recommendations. Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded.

6.2. Environmental precautions

Prevent releases to soils, drains, sewers and waterways.

6.3. Methods and material for containment and cleaning up

Remove all ignition sources. Wear protective equipment during clean-up. Ventilate the area of spill or leak. After collection of material, flush area with water. Contain spilled liquid with sand or vermiculite and place in chemical waste container. Prevent runoff from entering drains, sewers, and streams. Dispose of contents & container in accordance with local, regional, national or international regulations.

6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for Unique Hazards: Not applicable.

Practices to Minimize Risk: Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material. Do not eat, drink or smoke in work areas. Prevent contact with incompatible materials. Avoid spills and keep away from drains. Handle in a manner to prevent generation of aerosols, vapors or dust clouds. Wear appropriate protective equipment when performing maintenance on contaminated equipment.

Special Handling Equipment: Not applicable

7.2. Conditions for safe storage, including any incompatibilities

Storage Precautions & Recommendations: Keep container closed when not in use. Store in a cool dry place. Isolate from incompatible materials.

Dangerous Incompatibility Reactions: Can react vigorously with oxidizing materials.

Incompatibilities with Materials of Construction: None known

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Exposure Limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Air Monitoring Method</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

- **Other Engineering Controls**: All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided. No exposure limits exist for the constituents of this product.
- **Personal Protective Equipment**: Where overexposures are a concern, use NIOSH-approved dust/mist respirator as necessary. Latex rubber gloves are recommended where contact is likely. Safety glasses or goggles are recommended.
- **Thermal Hazards**: Not applicable.
- **Environmental Exposure Controls**: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, State &amp; Odor (ambient temperature):</td>
<td>clear, colorless and odorless liquid.</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C\textsubscript{18}H\textsubscript{38}</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>254.50</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 0.1 Pa @25°C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity or Density</td>
<td>0.7818 g/cm\textsuperscript{2} @25 °C</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>316.3°C</td>
</tr>
<tr>
<td>Freezing / Melting Point</td>
<td>82°F (28°C)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>0.006 mg/L @ 25°C</td>
</tr>
<tr>
<td>Octanol / Water Coefficient</td>
<td>9.18 @ 25°C</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>235°C</td>
</tr>
<tr>
<td>Flash Point and Method</td>
<td>&gt; 300°F (&gt; 149°C)</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>&gt; 235 °C</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Explosive Properties: Not explosive
Oxidizing Properties: Not an oxidizer

SECTION 10: Stability and reactivity

10.1. Reactivity
Not classified as dangerously reactive.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Polymerization is not expected to occur

10.4. Conditions to avoid
Avoid contact with heat and ignition sources.

10.5. Incompatible materials
Can react vigorously with oxidizing materials.

10.6. Hazardous decomposition products
Incomplete combustion yields carbon monoxide, carbon dioxide and dense smoke.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Oral LD₅₀: > 5000 mg/kg (rat)
Acute Dermal LD₅₀: > 3160 mg/kg (rat)
Acute Inhalation LC₅₀: 5.8 mg/L (rat)(6hr)

Skin Irritation: Non-irritating to skin.
Eye Irritation: Non-irritating to eyes.
Skin Sensitization: Not a sensitizer
Mutagenicity: Negative in Ames Assay, both with and without metabolic activation.

Reproductive / Developmental Toxicity:
No evidence of reproductive effects
Carcinogenicity:
No evidence of carcinogenic effects
Target Organs: None known.

Aspiration Hazard:
If ingested, material may be aspirated into the lungs and cause chemical pneumonitis

Primary Route(s) of Exposure:
Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure.

Most important symptoms and effects, both acute and delayed
Risk of aspiration into the lungs during swallowing and vomiting; Not toxic by oral, dermal or inhalation routes. Not a sensitizer. Delayed Effects: None known.
Additive or Synergistic effects:
None known.

SECTION 12: Ecological information

12.1. Toxicity
EC₅₀ (3h) Activated Sludge > 100 mg/L
LC₅₀ (96h) fish > 1028 mg/L
LC₅₀ (48h) Crustacean > 3193 mg/L

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12.2. Persistence and degradability
Estimated to be photodegradable and biodegradable.

12.3. Bioaccumulative potential
Bioconcentration is not expected to occur.

12.4. Mobility in soil
This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

12.5. Results of PBT and vPvB assessment
This substance is not a PBT or vPvB.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
US EPA Waste Number: Non-Hazardous
Waste Classification: (per US regulations) The waste may be classified as "special" or hazardous per State regulations.
Waste Disposal: NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations may differ substantially from federal regulations. Dispose of this material responsibly, and in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws, and environmental protection duty of care principles. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate classification code according to the European Community List of Wastes should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: Transport information

The following information applies to all shipping modes (DOT/IATA/ICAO/IMDG/ADR/RID/ADN), unless otherwise indicated:

14.1. UN number Non-Hazardous
14.2. UN proper shipping name Chemicals, n.o.s. (Octadecane)
14.3. Transport hazard class(es) Not applicable
14.4. Packing group Not applicable
14.5. Environmental hazards Not applicable
14.6. Special precautions for user Not applicable.
NA Emergency Guidebook Numbers: Not applicable
IMDG EMS: Not applicable
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

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

Chemical Inventory Lists: Status:
USA TSCA: Listed EINECS: 209-790-3
Canada(DSL/NDSL): DSL Japan: Listed
Korea: KE-26327 Australia: Listed
China: Listed Philippines: Listed

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15.2. Chemical safety assessment
Not applicable.

SECTION 16: Other information

CLP Classification Method
On basis of test data

Legend of Abbreviations:
- ACGIH = American Conference on Governmental Industrial Hygienists.
- CAS = Chemical Abstracts Service.
- DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.
- EC = European Community.
- EINECS = European Inventory of Existing Commercial Chemical Substances.
- ELINCS = European List of Notified Chemical Substances.
- EU = European Union.
- GHS = Globally Harmonized System.
- LD = Lethal Dose.
- LC = Lethal Concentration.
- NIOSH = National Institute of Occupational Safety and Health.
- NTP = National Toxicology Program.
- OSHA = Occupational Safety and Health Administration.
- PEL = Permissible Exposure Limit.
- RQ = Reportable Quantity.
- TLV = Threshold Limit Value.

Important Note: Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.

Revision Date: 05 Jul 2016
Original Date of Issue: 22 Aug 2005
Issued by: Regulatory Management Department
Email: SDS@Vertellus.com
Revision Details: Revised synonyms

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