

## C1012 Normal Paraffin

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

|                       |  |                |
|-----------------------|--|----------------|
| <b>Trade name</b>     | C1012 Normal Paraffin  |                |
| <b>Synonyms</b>       | Mixture of Decane, Undecane, and Dodecane  |                |
| <b>Use</b>            | Industrial use, Process material   |                |
| <b>Company</b>        | Sasol Chemicals (USA) LLC<br>(an affiliate of Sasol Chemicals North America LLC) |                |
| <b>Address</b>        | 12120 Wickchester Lane Houston TX 77079  |                |
| <b>Telephone</b>      | CHEMTREC North America Transportation Emergency (24-hr)                          | (800) 424-9300 |
|                       | CHEMTREC World Wide  | (703) 527-3887 |
|                       | Other Emergencies (24-hr)  | (337) 494-5142 |
|                       | MSDS and Product Information (8:00am-4:30pm CST)                                 | (281) 588-3491 |
|                       | Health and Safety Information (7:30am-4:00pm CST)                                | (281) 588-3492 |
| <b>E-mail address</b> | SasolElectronicSDS@us.sasol.com  |                |

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Hazards

|                   |            |
|-------------------|------------|
| Flammable liquids | Category 4 |
| Aspiration hazard | Category 1 |

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H227 Combustible liquid.  
H304 May be fatal if swallowed and enters airways.

#### Precautionary statements

**Prevention** P210 Keep away from open flames/hot surfaces. - No smoking.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response** P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 Do NOT induce vomiting.

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**Storage** P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

**Disposal** P501 Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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| <u>Components</u> | <u>CAS-No.</u> | <u>Weight percent</u> |
|-------------------|----------------|-----------------------|
| Decane            | 124-18-5       | 20 - 50               |
| Undecane          | 1120-21-4      | 25 - 36               |
| Dodecane          | 112-40-3       | 25 - 33               |
| Tridecane         | 629-50-5       | 8 - 15                |

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

### SECTION 4 FIRST AID MEASURES

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**Eye contact** Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

**Skin contact** If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

**Ingestion** Do NOT induce vomiting. Consult a physician.

### SECTION 5 FIREFIGHTING MEASURES

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#### FLAMMABLE PROPERTIES

**Fire/explosion** NFPA Class IIIA combustible liquid.

**Suitable extinguishing media** Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**Protective equipment and precautions for firefighters** In the event of fire, wear self-contained breathing apparatus.

**Further information** Keep containers and surroundings cool with water spray.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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**Methods and materials for containment and cleaning up** Evacuate the area and eliminate all sources of ignition. Contain spillage, and then collect 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).

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**SECTION 7 HANDLING AND STORAGE**

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**Safe handling advice** Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

**Storage/Transport pressure** Ambient

**Load/Unload temperature** Ambient

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING MEASURES**

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes** Wear as appropriate: Goggles, Face-shield

**Skin** Wear suitable protective clothing, gloves and eye/face protection.

**Inhalation** Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

**EXPOSURE GUIDELINES**

Contains no substances with occupational exposure limit values., Sasol Chemicals (USA) LLC recommends an internal limit of 5 mg/m<sup>3</sup> (8-hour TWA) for exposure to mists of this product.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance** liquid;

**Colour** water-white, oily

**Form** liquid

**Odour** Hydrocarbons

**Odour Threshold** no data available

**Flash point** 68 °C, 156 °F; TCC;

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|---|--|
| <b>Flammability</b>                           | Upper explosion limit: 7.0 %(V)<br>Lower explosion limit: 0.6 %(V) |
| <b>Boiling point/boiling range</b>            | 183 - 227 °C, 363 - 441 °F;  |
| <b>Melting point/range</b>                    | -5 °C, 22 °F; ASTM D-2386;   |
| <b>Auto-ignition temperature</b>              | 207 °C, 405 °F;  |
| <b>Decomposition temperature</b>              | no data available  |
| <b>Flammability (solid, gas)</b>              | no data available  |
| <b>Vapour pressure</b>                        | < 1 mm Hg @ 20 °C, 68 °F;  |
| <b>Vapour density</b>                         | 5.6  |
| <b>Density</b>                                | no data available  |
| <b>Specific gravity</b>                       | 0.748 @15 °C, 59 °F;   |
| <b>Water solubility</b>                       | negligible   |
| <b>Viscosity</b>                              | 1.2 cSt @ 40 °C, 104 °F;   |
| <b>pH</b>                                     | no data available  |
| <b>Evaporation rate</b>                       | no data available  |
| <b>Partition coefficient: n-octanol/water</b> | no data available  |

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**SECTION 10 STABILITY AND REACTIVITY**

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|---|--|
| <b>Reactivity</b>                       | Stable at normal ambient temperature and pressure.   |
| <b>Chemical stability</b>               | No decomposition if stored and applied as directed.  |
| <b>Conditions to avoid</b>              | Keep away from heat and sources of ignition.   |
| <b>Hazardous decomposition products</b> | Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds. |
| <b>Materials to avoid</b>               | Oxidizing agents   |
| <b>Hazardous polymerisation</b>         | Stable   |

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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| <b>Acute dermal toxicity</b>             | LD50 rabbit: > 2,000 mg/kg   |
| <b>Acute inhalation toxicity</b>         | LC50 rat (4 hours): > 5.6 mg/l   |
| <b>Acute oral toxicity</b>               | LD50 rat: > 2,000 mg/kg  |
| <b>Skin corrosion/irritation</b>         | Primary irritation (rabbit): 5.1 (Max. score is 8.0.)<br>Repeated exposure may cause skin dryness or cracking.   |
| <b>Eye damage/irritation</b>             | (rabbit)<br>Not irritating   |
| <b>Respiratory or skin sensitization</b> | no data available  |
| <b>Germ cell mutagenicity</b>            | <b>Genotoxicity in vitro:</b><br>no data available<br><br><b>Genotoxicity in vivo:</b><br>no data available<br><br><b>Assessment Mutagenicity:</b><br>no data available  |
| <b>Reproductive toxicity</b>             | <b>Reproductive toxicity:</b><br>no data available<br><br><b>Assessment Reproductive toxicity:</b><br>no data available<br><br><b>Teratogenicity:</b><br>no data available<br><br><b>Assessment teratogenicity:</b><br>no data available |
| <b>STOT - single exposure</b>            | no data available  |
| <b>STOT - repeated exposure</b>          | no data available  |
| <b>Aspiration toxicity</b>               | May be fatal if swallowed and enters airways.  |
| <b>Carcinogenicity</b>                   | <b>Assessment carcinogenicity:</b><br>Contains no ingredient listed as a carcinogen  |

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### SECTION 12 ECOLOGICAL INFORMATION

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|--|---|
| <b>Aquatic toxicity</b>                          | Low toxicity to aquatic organisms such as bacteria, algae, protozoa and fish.   |
| <b>Toxicity to fish</b>                          | LL50 (Oncorhynchus mykiss (rainbow trout)) 96 hours<br>In the range of water solubility not toxic under test conditions., (literature value)            |
| <b>Toxicity to aquatic invertebrates</b>         | EL50 (Daphnia magna (Water flea)) 48 hours<br>In the range of water solubility not toxic under test conditions., (literature value)                     |
| <b>Toxicity to algae</b>                         | ErL50 (Pseudokirchneriella subcapitata (green algae)) 72 hours<br>In the range of water solubility not toxic under test conditions., (literature value) |
| <b>Chronic toxicity to fish</b>                  | no data available   |
| <b>Chronic toxicity to aquatic invertebrates</b> | no data available   |
| <b>Biodegradation</b>                            | Readily biodegradable.<br><br>OECD Test Guideline 301F (28 d): 77 - 83 %<br>Test substance: (literature value)  |
| <b>Bioaccumulation</b>                           | no data available   |
| <b>Mobility in soil</b>                          | no data available   |
| <b>Other adverse effects</b>                     | no data available   |

### SECTION 13 DISPOSAL CONSIDERATIONS

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|                          |  |
|--------------------------|--|
| <b>Waste Code</b>        | Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations. |
| <b>Disposal methods</b>  | Dispose of only in accordance with local, state, and federal regulations.  |
| <b>Empty containers.</b> | Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.   |

### SECTION 14 TRANSPORT INFORMATION

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**DOT** Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)).

**IATA** Not regulated.

**IMDG** Not regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**Remarks** no data available

### SECTION 15 REGULATORY INFORMATION

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#### U.S. FEDERAL REGULATIONS

##### OSHA Hazards (HCS 1994)

Skin irritation, Combustible liquid.

##### TSCA Inventory Listing

###### Components

|           | <u>CAS-No.</u> |
|-----------|----------------|
| Decane    | 124-18-5       |
| Undecane  | 1120-21-4      |
| Dodecane  | 112-40-3       |
| Tridecane | 629-50-5       |

##### SARA 302 Status

###### Components

###### CAS-No.

###### Weight percent

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### SARA 311/312 Classification

"Fire hazard", "Immediate (acute) health hazard"

##### SARA 313 Chemical

###### Components

###### CAS-No.

###### Weight percent

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### US. EPA CERCLA Hazardous Substances (40 CFR 302)

###### Components

###### Reportable Quantity

###### Weight percent

none

#### INTERNATIONAL REGULATIONS

##### WHMIS Classification

Class B, Division 3: Combustible liquid.

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### European Union

Classification according to Regulation (EU) 1272/2008.

Aspiration hazard, Category 1  
Repeated exposure may cause skin dryness or cracking.

|  |            |
|--|------------|
| Australia. Inventory of Chemical Substances (AICS)                             | Listed     |
| Japan. Inventory of Existing and New Chemical Substances (ENCS)                | Listed     |
| Japan. Industrial Safety & Health Law (ISHL) Inventory                         | Listed     |
| Canada. Domestic Substances List (DSL) Inventory                               | Not listed |
| Canadian Non-Domestic Substance Listing (NDSL)                                 | Listed     |
| European Inventory of Existing Commercial Chemical Substances (EINECS) Listing | Listed     |
| Philippines. Inventory of Chemicals / Chemical Substances (PICCS)              | Listed     |
| Korea. Existing Chemicals Inventory (KECI)                                     | Listed     |
| China. Inventory of Existing Chemical Substances (IECSC)                       | Listed     |
| Mexico. National Inventory of Chemical Substances (INSQ)                       | Listed     |
| New Zealand. Inventory of Chemicals (NZIoC)                                    | Listed     |
| Switzerland. Inventory of Notified New Substances (CHINV)                      | Listed     |
| Taiwan. National Existing Chemical Inventory (NECI)                            | Listed     |

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

### STATE REGULATIONS

#### California Prop. 65

##### Components

none

CAS-No.

## SECTION 16 OTHER INFORMATION

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### HAZARD RATINGS

|       | <u>Health</u> | <u>Flammability</u> | <u>Physical Hazard/<br/>Instability</u> |
|-------|---------------|---------------------|---|
| HMIS® | 1             | 2                   | 0                                       |
| NFPA  | 1             | 2                   | 0                                       |



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