SAFETY DATA SHEET: DECANE

1. IDENTIFICATION

Product Name: DECANE
Synonyms: n-Decane; Decyl hydride
Formula and Formula Weight: CH3(CH2)8CH3  142.29
Integra numbers beginning with: D317.50
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

DANGERSignal Word:
OSHA Classification:
Aspiration Hazard 1 May be fatal if swallowed and enters airways.
Flammable Liquids 3 Flammable liquid and vapor.

Precautionary Statements

Prevention:
Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
Keep container tightly closed.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves, eye protection, face protection.

Response
If swallowed: Immediately call a poison center, doctor. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.
In case of fire: Use carbon dioxide, dry chemical, or alcohol foam to extinguish.

Storage
Store locked up in a well ventilated place. Keep cool.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Synonyms CAS # % Weight
Decane n-Decane; Decyl hydride 00124-18-5 100

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.
Eye Contact: Flush eyes with water for at least 15 minutes. Seek medical attention.
Skin Contact: Remove contaminated clothing. Flush skin with water for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion: Aspiration hazard. If swallowed, do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.
Additional notes: Symptoms and effects include skin, eye, respiratory irritation; coughing, dizziness, dullness, headache, central nervous system depression, narcosis, unconsciousness; abdominal spasms, nausea, vomiting, diarrhea; dermatitis.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam. Do not use a stream of water since the stream will scatter and spread the fire.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Vapors may flow along surfaces to distant ignition sources and flash back.
6. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 1.4 mm Hg @25°C
Odor: Gasoline-like odor
Odor Threshold: Not available
pH: Not available
Partition Coefficient: n-octanol/water
Decomposition Temperature: 210 °C
Viscosity: 5.98

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers.
Storage and Handling: Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking.
Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
Keep container tightly closed.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:
Decane None identified
Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentrations are high a NIOSH approved chemical cartridge respirator with an organic vapor cartridge is recommended.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers.
Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid
Odor: Gasoline-like odor
Odor Threshold: Not available
pH: Not available
Melting/Freezing Point: -30 °C
Initial Boiling Point and Boiling Range: 174 °C
Flash Point: 46 °C
Evaporation Rate: Not available
Flammability: Not available
Flammable or Explosive Limits (% by volume in air)
Upper: 5.4
Lower: 0.8
Vapor Pressure: 1.4 mm Hg @25°C
Vapor Density: 4.9
Relative Density: 0.73 Water=1
Solubility: Insoluble in water
Partition Coefficient: n-octanol/water 5.98
Auto-Ignition Temperature: 210 °C
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Heat, sparks and open flame.
Incompatibles: Incompatible with strong oxidizers.
Decomposition Products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: Harmful if inhaled. Symptoms include respiratory tract irritation, coughing, dizziness, dullness and headache. High concentrations can produce central nervous system depression, narcosis and unconsciousness.
Skin Contact: May cause skin irritation. Prolonged contact may cause dermatitis.
Eye Contact: Contact may be irritating to the eyes.
Ingestion: May be irritating to the mouth, throat and gastrointestinal tract if swallowed. May cause abdominal spasms, nausea,
OTHER INFORMATION

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***** END OF SDS *****