

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name:** DECANE**CAS number:** 124-18-5**Product code:** A67465**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet****Company name:** Philip Harris Ltd

2 Gregory Street

Hyde

Cheshire

SK14 4HR

United Kingdom

Tel: +44 (0)845 1200 506**Fax:** +44 (0)161 367 2140**Email:** enquiries@philipharris.co.uk**1.4. Emergency telephone number****Emergency tel:** +44 (0) 845 1200 506**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Flam. Liq. 3: H226; Asp. Tox. 1: H304**Classification under CHIP:** -: R10; Xn: R65**Most important adverse effects:** Flammable liquid and vapour. May be fatal if swallowed and enters airways.**2.2. Label elements****Label elements under CLP:****Hazard statements:** H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

Signal words: Danger**Hazard pictograms:** GHS02: Flame

GHS08: Health hazard

**Precautionary statements:** P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331: Do NOT induce vomiting.

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2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: DECANE

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Do not induce vomiting. Wash out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation: May be harmful if inhaled. may cause respiratory tract irritation.

Delayed / immediate effects: Acts as a simple asphyxiant by displacing air, anesthetic effects. Difficulty in breathing. Headache. Dizziness. Prolonged or repeated exposure to skin causes defatting & dermatitis, narcosis.

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance. Acts as a simple asphyxiant displacing air, anesthetic effect. Difficulty in breathing. Headache. Dizziness. Prolonged or repeated exposure to skin causes defatting & dermatitis, narcosis.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No data available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. Evacuate the area immediately. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Contain spillage, and then collect with an electronically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid the formation or spread of mists in the air. Avoid the formation or spread of dust in the air. Smoking is forbidden. Take measures to prevent build up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Containers which are open must be carefully resealed and kept upright to prevent leakage. Store under inert gas.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi purpose combination (US) or type AXBEK (EN14387 respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection use a full face supplied air respirator. Use respirators and components

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tested & approved under appropriate government standards eg CEN (EU) or NIOSH (US).

Hand protection: Protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. Full contact protection- nitrile rubber, 0.4mm minimum layer thickness, breakthrough time 480mins. Splash protection - Nitrile rubber, 0.11mm minimum layer thickness, break through time 30 mins.

Eye protection: Safety glasses. Face-shield.

Skin protection: Flame retardent antistatic protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: No data available

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: No data available

Viscosity: No data available

Boiling point/range°C: 174

Melting point/range°C: -30

Flammability limits %: lower: 0.8% (V)

upper: 2.6% (V)

Flash point°C: 46

Autoflammability°C: 210

Vapour pressure: 5.1hPa at 37.7oC

Relative density: 0.73g/cm³ at 25oC

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sparks

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

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10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

| Hazard | Route | Basis |
|-------------------|-------|--------------------|
| Aspiration hazard | - | Based on test data |

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation: May be harmful if inhaled. may cause respiratory tract irritation.

Delayed / immediate effects: Acts as a simple asphyxiant by displacing air, anesthetic effects. Difficulty in breathing. Headache. Dizziness. Prolonged or repeated exposure to skin causes defatting & dermatitis, narcosis.

Other information: RTECS: HD6550000

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

| Species | Test | Value | Units |
|---------------|----------|-------|-------|
| FISH | 96H LC50 | 500 | mg/l |
| Daphnia magna | 48H EC50 | 18 | mg/l |

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

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Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Disposal of packaging: Burn in a chemical incinerator equipped with afterburners and scrubbers.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2247

14.2. UN proper shipping name

Shipping name: N-DECANE

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

R10: Flammable.

R65: Harmful: may cause lung damage if swallowed.

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Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.