



SAFETY DATA SHEET ISOPROPYL PALMITATE REVISION 3, DATE 31 OCT 20

1. IDENTIFICATION

| | |
|----------------------------|--|
| Product Name | Isopropyl Palmitate |
| Other Names | Isopropylpalmitate |
| Uses | Cosmetic; Cleaning agents. |
| Chemical Family | No Data Available |
| Chemical Formula | C19H38O2 |
| Chemical Name | Hexadecanoic acid, 1-methylethyl ester |
| Product Description | No Data Available |

Contact Details of the Supplier of this Safety Data Sheet

| Organisation | Location | Telephone |
|-------------------------|--|------------------|
| Redox Ltd | 2 Swettenham Road Minto NSW 2566 Australia | +61-2-97333000 |
| Redox Ltd | 11 Mayo Road Wiri Auckland 2104 New Zealand | +64-9-2506222 |
| Redox Inc. | 3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA | +1-424-675-3200 |
| Redox Chemicals Sdn Bhd | Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia | +60-3-5614-2111 |

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

| Organisation | Location | Telephone |
|----------------------------|-----------------|--|
| Poisons Information Centre | Westmead NSW | 1800-251525 131126 |
| Chemcall | Australia | 1800-127406 +64-4-9179888 |
| Chemcall | Malaysia | +64-4-9179888 |
| Chemcall | New Zealand | 0800-243622 +64-4-9179888 |
| National Poisons Centre | New Zealand | 0800-764766 |
| CHEMTREC | USA & Canada | 1-800-424-9300 CN723420 +1-703-527-3887 |

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Not Scheduled



Globally Harmonised System

| | |
|------------------------------|--|
| Hazard Classification | NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) |
| Signal Word | None |

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

| | |
|---------------------------------------|---|
| Dangerous Goods Classification | NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
|---------------------------------------|---|

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Chemical Entity | Formula | CAS Number | Proportion |
|---------------------|----------|------------|------------|
| Isopropyl palmitate | C19H38O2 | 142-91-6 | <=100 % |

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

| | |
|--|---|
| Swallowed | IF SWALLOWED: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical advice/attention if large quantities of this material are swallowed or if you feel unwell. Never give anything by mouth to an unconscious person. |
| Eye | IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention. |
| Skin | IF ON SKIN: Remove contaminated clothing and shoes immediately. Wash skin with plenty of soap and running water/shower. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse. |
| Inhaled | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult. |
| Advice to Doctor | Treat symptomatically. |
| Medical Conditions Aggravated by Exposure | No information available. |

5. FIRE FIGHTING MEASURES

| | |
|---|--|
| General Measures | If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. |
| Flammability Conditions | May burn but does not ignite readily. |
| Extinguishing Media | Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets. |
| Fire and Explosion Hazard | Containers may explode when heated. |
| Hazardous Products of Combustion | Fire may produce irritating and/or toxic fumes, including carbon dioxide, carbon monoxide. |

| | |
|---|--|
| Special Fire Fighting Instructions | Contain runoff from fire control or dilution water - Runoff may pollute waterways. |
| Personal Protective Equipment | Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection. |
| Flash Point | ca. 168 °C [COC] |
| Lower Explosion Limit | No Data Available |
| Upper Explosion Limit | No Data Available |
| Auto Ignition Temperature | No Data Available |
| Hazchem Code | No Data Available |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|--|
| General Response Procedure | Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material - High slip hazard because of leaking or spilled product. Avoid breathing vapours and contact with eyes, skin and clothing. |
| Clean Up Procedures | Absorb with earth, sand or other non-combustible material and transfer to a suitable container for disposal (see SECTION 13). |
| Containment | Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. |
| Decontamination | Clean contaminated objects and areas thoroughly, observing environmental regulations. |
| Environmental Precautionary Measures | Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. |
| Evacuation Criteria | Spill or leak area should be isolated immediately. Keep unauthorised personnel away. |
| Personal Precautionary Measures | Use personal protective equipment as required (see SECTION 8). |

7. HANDLING AND STORAGE

| | |
|------------------|--|
| Handling | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Keep away from sources of ignition - No smoking. |
| Storage | Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). |
| Container | Keep in the original container. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|--------------------------------------|---|
| General | No specific exposure standards are available for this product. DNELs for Workers: - Oral: 1.83 mg/kg bw/day - Dermal: 18.3 mg/kg bw/day - Inhalative: 6.37 mg/m3 |
| Exposure Limits | No Data Available |
| Biological Limits | No information available. |
| Engineering Measures | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. |
| Personal Protection Equipment | - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: In case of brief exposure or low pollution, use respiratory filter device. In case intensive or longer exposure, use self-contained respiratory protective device (refer to AS/NZS 1715 & 1716). |

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses.
- Hand protection: Handle with gloves. Recommended: Chemical-resistant protective gloves.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact.

Special Hazards Precautions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|------------------------------------|
| Physical State | Liquid |
| Appearance | Liquid |
| Odour | Characteristic |
| Colour | According to product specification |
| pH | No Data Available |
| Vapour Pressure | ca. 0.00745 hPa (@ 25 °C) |
| Relative Vapour Density | No Data Available |
| Boiling Point | >ca. 300 °C |
| Melting Point | ca. 13.5 °C |
| Freezing Point | No Data Available |
| Solubility | <ca. 0.001 g/L in water 25°C |
| Specific Gravity | 0.850 - 0.855 |
| Flash Point | ca. 168 °C [COC] |
| Auto Ignition Temp | No Data Available |
| Evaporation Rate | No Data Available |
| Bulk Density | No Data Available |
| Corrosion Rate | No Data Available |
| Decomposition Temperature | No Data Available |
| Density | ca. 0.85 g/cm ³ |
| Specific Heat | No Data Available |
| Molecular Weight | No Data Available |
| Net Propellant Weight | No Data Available |
| Octanol Water Coefficient | ca. 8.16 (log Kow) |
| Particle Size | No Data Available |
| Partition Coefficient | No Data Available |
| Saturated Vapour Concentration | No Data Available |
| Vapour Temperature | No Data Available |
| Viscosity | 5 - 10 mPa.s (@ 20 °C) |
| Volatile Percent | No Data Available |
| VOC Volume | No Data Available |
| Additional Characteristics | No information available. |
| Potential for Dust Explosion | Not applicable. |
| Fast or Intensely Burning Characteristics | No information available. |
| Flame Propagation or Burning Rate of Solid Materials | No information available. |
| Non-Flammables That Could Contribute Unusual Hazards to a Fire | No information available. |

| | |
|---|--|
| Properties That May Initiate or Contribute to Fire Intensity | May burn but does not ignite readily. |
| Reactions That Release Gases or Vapours | Fire/decomposition may produce irritating and/or toxic fumes, including carbon dioxide, carbon monoxide. |
| Release of Invisible Flammable Vapours and Gases | No information available. |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| General Information | No hazardous reactions known. |
| Chemical Stability | Stable under normal operational conditions. |
| Conditions to Avoid | Keep away from heat and sources of ignition. |
| Materials to Avoid | Incompatible/reactive with strong oxidising agents. |
| Hazardous Decomposition Products | Fire/decomposition may produce irritating and/or toxic fumes, including carbon dioxide, carbon monoxide. |
| Hazardous Polymerisation | No information available. |

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------|--|
| General Information | <ul style="list-style-type: none">- Acute toxicity: No information available.- Skin corrosion/irritation: Non-irritant.- Eye damage/irritation: Non-irritant.- Respiratory/skin sensitisation: No skin or respiratory sensitization.- Germ cell mutagenicity: Negative.- Carcinogenicity: No information available.- Reproductive toxicity: No information available.- STOT (single exposure): No information available.- STOT (repeated exposure): No information available.- Aspiration toxicity: No information available. |
|----------------------------|--|

Acute

| | |
|----------------------------|---|
| Ingestion | Acute toxicity (Oral): - LD50, Rat: >5,000 mg/kg bw. [OECD 401]. |
| Inhalation | Acute toxicity (Inhalation): - LC50, Rat: >5.3 mg/L (4 h) [OECD 436]. |
| Ingestion | Repeated dose toxicity (Oral): - NOAEL, Rat: 1,000 mg/kg bw/day (subacute) [Supplier's SDS]. |
| Carcinogen Category | None |

12. ECOLOGICAL INFORMATION

| | |
|----------------------------------|--|
| Ecotoxicity | Aquatic toxicity: - LC50, Fish: >10,000 mg/L (96 h) [Supplier's SDS]. - EC50, Crustacea (Daphnia magna): >3,000 mg/kg (48 h) [Supplier's SDS]. |
| Persistence/Degradability | Product is biodegradable. |
| Mobility | No information available. |
| Environmental Fate | Do not allow to enter soil, waterways or wastewater canal. |
| Bioaccumulation Potential | Does not accumulate in organisms. |

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

General Information

Where possible, arrange for product to be recycled or dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Special Precautions for Land Fill

If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

| | |
|----------------------|--|
| Proper Shipping Name | Isopropyl Palmitate |
| Class | C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Land Transport (Malaysia)

ADR Code

| | |
|----------------------|--|
| Proper Shipping Name | Isopropyl Palmitate |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Land Transport (New Zealand)

NZS5433

| | |
|----------------------|---------------------|
| Proper Shipping Name | Isopropyl Palmitate |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |

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| | |
|-------------------|--|
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Land Transport (United States of America)

US DOT

| | |
|----------------------|--|
| Proper Shipping Name | Isopropyl Palmitate |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Sea Transport

IMDG Code

| | |
|----------------------|---|
| Proper Shipping Name | Isopropyl Palmitate |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| EMS | No Data Available |
| Marine Pollutant | No |
| Comments | NON-DANGEROUS GOODS: Not regulated for SEA transport. |

Air Transport

IATA DGR

| | |
|----------------------|---|
| Proper Shipping Name | Isopropyl Palmitate |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for AIR transport. |

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

| | |
|--------------------------------|---|
| Dangerous Goods Classification | NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
|--------------------------------|---|

15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Assessed

National/Regional Inventories

| | |
|--|----------------|
| Australia (AIIIC) | Listed |
| Canada (DSL) | Not Determined |
| Canada (NDSL) | Not Determined |
| China (IECSC) | Not Determined |
| Europe (EINECS) | Not Determined |
| Europe (REACH) | Not Determined |
| Japan (ENCS/METI) | Not Determined |
| Korea (KECI) | Not Determined |
| Malaysia (EHS Register) | Not Determined |
| New Zealand (NZIoC) | Listed |
| Philippines (PICCS) | Not Determined |
| Switzerland (Giftliste 1) | Not Determined |
| Switzerland (Inventory of Notified Substances) | Not Determined |
| Taiwan (NCSR) | Not Determined |
| USA (TSCA) | Listed |

16. OTHER INFORMATION

| | |
|-----------------------|---|
| Related Product Codes | ISPRPA1000, ISPRPA1001, ISPRPA1002, ISPRPA1003, ISPRPA1004, ISPRPA1005, ISPRPA1006, ISPRPA2000, ISPRPA2001, ISPRPA3000, ISPRPA4000, ISPRPA5000, ISPRPA5500, ISPRPA5600, ISPRPA8000 |
| Revision | 3 |
| Revision Date | 31 Oct 2020 |
| Reason for Issue | Updated SDS |
| Key/Legend | <p>< Less Than</p> <p>> Greater Than</p> <p>AICS Australian Inventory of Chemical Substances</p> <p>atm Atmosphere</p> <p>CAS Chemical Abstracts Service (Registry Number)</p> <p>cm² Square Centimetres</p> <p>CO₂ Carbon Dioxide</p> |

COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/l Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH₂O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

lb Pound

LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

ltr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH₂O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight