Material Safety Data Sheet
AlphaPlus 1-Tetradecene

Section 1 - Product Identification

Synonyms : 1-Tetradecene
Molecular Weight : 196.4 g/mol
Chemical Formula : $C_{14}H_{28}$
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Recommended use of the chemical and restrictions on use:

Section 2 – Composition/Information on Ingredients

Chemical Name	EC/CAS No	Weight, %
1-Tetradecene	1120-36-1	94
2-Butyl-1-Decene	51655-65-3	2
2-Ethyl-1-Dodecene	19780-34-8	2
2-Hexyl-1-Octene	19780-80-4	1

Section 3 – Hazards Identification

3.1 Classification of the substance or mixture

Aspiration hazard (Category 1), H304

3.2 Label elements

Signal word - Danger

Hazard statement(s)

H304 - May be fatal if swallowed and enters airways.

Precautionary statement(s)

Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 - Do NOT induce vomiting.

Storage

P405 – Store locked up

Disposal

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

3.3 Other hazards

None

Section 4 – First-Aid Measures

4.1. Description of first aid mesaures

General advice

Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim. Unattended.

Skin contact

N.A.

Eye contact

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Inhalation

Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim. Unattended.

Ingestion

Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Do not ingest. If swallowed then seek immediate medical. Assistance.

Precaution

N.A.

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

N.A.

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

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Do not use high volume water jet.

5.2. Specific hazards arising from the chemical

N.A.

5.3. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation.

6.1.1 For non-emergency personnel

N.A

6.1.2. For emergency personnel

N.A

6.2. Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

7.2.1 Incompatible product

N.A.

7.2.2 Incompatible materials

N.A.

Section 8 – Exposure Controls/Personal Protection

8.1. Control parameters

8.2. Appropriate engineering controls

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal

protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Respiratory protection

Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as.

Eyes protection

Eye wash bottle with pure water. Tightly fitting safety goggles.

Hand protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programme.

Skin protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate. Protective suit. Safety shoes.

Other information

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance : colourless liquid

Odour : N.A.

Odour threshold : N.A.

pH @ 25° C : N.

Melting point : -13.9 °C

Boiling point : 251 °C

Density: N.A.

Flash point : 107 °C

Evaporation rate : N.A.

Flammability : N.A.

Upper/lower flammability or explosive limits : Upper explosion limit: < 5.4 % (V)
Lower explosion limit: >0.5 %(V)

Vapour pressure : 0.01 mmHg at 25 °C

Vapour density : N.A.

Relative density: 0,77 g/cm3 at 15.6°C

Solubility: soluble in hydrocarbon solvents; insoluble in water

Auto-ignition temperature : 235 °C

Decomposition temperature : N.A.

Viscosity : 2.61 cSt at 20 °C

Explosive properties: N.A.

Oxidizing properties: N.A.

Section 10 – Stability and Reactivity

10.1. Reactivity

N.A.

10.2. Chemical stability

This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

N.A

10.4. Conditions to avoid:

N.A.

10.5. Incompatible materials

May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc

10.6. Hazardous decomposition products

N.A.

Section 11 – Toxicological Information

Information on toxicological effects

Acute toxicity

LD50: > 5.000 mg/kg
Species: Rat
Sex: male and female
Information given is based on data obtained from similar substances.

Skin corrosion / irritation

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin

Serious eye damage/ irritation

N.A.

Respiratory or skin sensitization

N.A.

Germcell mutagenicity

N.A.

Carcinogenicity

N.A.

Reproductive toxicity

Species: Rat
Sex: male
Application Route: Oral diet
Dose: 0, 100, 500, 1000 mg/kg
Exposure time: 43-47 days
Method: OECD Guideline 422
NOAEL Parent: 1.000 mg/kg

Species: Rat
Sex: female
Application Route: Oral diet
Dose: 0, 100, 500, 1000 mg/kg
Exposure time: 46-47 days
Method: OECD Guideline 422
NOAEL Parent: 1.000 mg/kg
NOAEL F1: 1.000 mg/kg

STOT-single exposure

N.A.

STOT-repeated exposure

N.A.

Aspiration Hazard

May be fatal if swallowed and enter airways.

Potential health effects

N.A

Section 12 – Ecological Information

12.1.Toxicity

The product has low solubility in the test medium. An aqueous dispersion was tested.

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

N.A

12.4. Mobility in soil

N.A.

12.5. Other adverse effects

N.A.

Section 13 – Disposal Considerations

13.1. Disposal methods Product

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

13.2 Ecotoxicity Effect

N.A.

Section 14 – Transport Information

14.1. UN number : N.A.

14.2. UN proper shipping name : N.A

14.3. Transport of hazard classes : N.A

14.4. Packing group : N.A

14.5. Environmental hazards : N.A.

14.6. Special precautions for user : N.A

14.7. Incompatible materials: N.A.

Section 15 – Regulatory Information

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

Notification status:

U.S. EPA TSCA Inventory	N.A.
Canadian DSL	N.A.

EINECS	N.A.
South Korea	N.A.
Japanese MITI	N.A.

Ensure all national/local regulations are observed.

Section 16 : Additional Information

Revision date: 2/8/2019

Other information: None.

16.1. Disclaimer of Liability

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