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Safety Data Sheet

Date of Revision: 26 September 2022

Section 1: Identification of the substance/mixture

1.1 Product identification

Trade name:	ThaiOL 1698
Substance name:	Cetyl Alcohol, Hexadecanol-1
Other Identification:	Singele distilled
CAS No.:	36653-82-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Use in surfactant (upstream of detergent, personal care).
Uses advised against:	No uses advised against.

Section 2: Hazards identification

Classification and labelling according to Regulation (EC) No 1272/2008[CLP]

GHS classification: This product is not classified as hazardous.

GHS labelling: No labelling information available (such as hazard pictogram, signal word, hazard statement, precautionary statement). This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Hazard pictogram(s): No pictogram is used.

Signal word: No signal word is used.

Hazard statement(s): No hazard statement.

Precautionary statement(s): No precautionary statement.

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Section 3: Composition/information on ingredients

3.1 Substance information

Substance name	*CAS No.*	*EC No.*	*Index No.*	*Classification according to DSD*	*Classification according to CLP*	*% (w/w)*
Hexadecan-1-ol	36653-82-4	-	-	Not classified	Not classified	98-100

Full text of R-phrase(s) and H-statement(s): see section 16.

Section 4: First aid measures

4.1 Description of first aid measures

General notes: In case of adverse health effects seek medical advice.

Following inhalation:

Not relevant

Following skin contact:

Rinse with running water

Following eye contact:

Immediately Flush eyes with copious amounts of running water (for 15 minutes), see an oculist.

Following ingestion:

Flush oral cavity, drink 200-300 ml of water, and see a physician.

Notes for the doctor:

Treat symptomatically and supportively.
Treatment may vary with condition of victim and specifics of incident

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of the immediate medical attention and special treatment needed

Treat symptomatically.

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Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, water spray jet

Unsuitable extinguishing media:

Carbon dioxide

5.2 Special hazards arising from the substance or mixture

From combustion products or from resulting gases: no data available.

5.3 Advice for fire-fighters

Wear protective equipment.

Wear a self-contained breathing apparatus.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

6.2 Environmental precautions

Do not allow to flow into drainage system.

6.3 Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

Danger of slipping on escaped product.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid open flames
No special measures required

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7.2 Conditions for safe storage, including any incompatibilities

Suitable materials of containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Paper/Fireboard.
Keep container tightly sealed
Liquid product: Minimum temperature in storage tank 55 °C
Storage stability:
Storage temperature: <=30 °C
Protect against moisture.

7.3 Specific end use(s)

No data available.

Section 8 : Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Not established

DNEL(Derived No Effect Level) for workers:

36653-82-4: Hexadecan-1-ol
Worker: Long and Short-term exposure- systematic effects, dermal: 125 mg/kg bw/day
Worker: Long and Short-term exposure- systematic effects, inhalation: 220 mg/m^3

DNEL(Derived No Effect Level) for the general population:

36653-82-4: Hexadecan-1-ol
Consumer: Long and Short-term exposure- systematic effects, dermal: 75 mg/kg bw/day
Consumer: Long and Short-term exposure- systematic effects, inhalation: 65 mg/m^3
Consumer: Long and Short-term exposure- systematic effects, oral: 75 mg/kg bw/day

PNEC(Predicted No Effect Concentration) values:

36653-82-4: Hexadecan-1-ol
Freshwater: 0.00156 mg/l
Marine water: 0.000156 mg/l
Intermittent release: No PNEC value available
STP: 0.00013 mg/l
Sediment (freshwater): 4.8 mg/kg
Sediment (marine water): 0.48 mg/kg
Soil: 4 mg/kg
Oral (secondary poisoning): No PNEC value available

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8.2 Exposure controls

Appropriate engineering controls:
Provide local exhaust or process enclosure ventilation system.

Personal protective equipment:

Eye and face Protection:	Protective goggles
Skin protection:	Wear appropriate protective clothing and gloves to prevent skin exposure.
Respiratory protection:	In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Industrial hygiene:
Immediately remove soiled or soaked clothing. Do not eat, drink or smoke while working.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Colourless liquid to white solid
Colour:	White
Odour:	Odourless
pH:	No data available.
Melting point:	45 – 50 °C
Boiling point:	319 °C (1,013 hPa) (ASTM D1120)
Density (60°C):	0.805-0.815 g/cm^3 (ISO 6883; QP2309.1; Density pycnometer) 0.8886 g/cm^3 (16 °C) (DIN 51757)
Vapour pressure:	3 mbar (38 °C) (measured)
Partition coefficient n -octanol/water (log Kow):	6.7 (measured)
Solubility in water:	(20 °C) insoluble at water
Flash point:	149 °C (ASTM D93)
Auto-ignition temperature:	Temperature: 272 °C

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	Pressure: 1,013.25 hPa
Flammability:	Not flammable
Decomposition temperature:	No data available.
Explosive properties:	Not explosive.
Oxidising properties:	No oxidizing properties.
Evaporation rate:	The product is a non-volatile solid.
Viscosity; dynamic:	Not applicable, the product is a solid
Viscosity; kinematic:	3,394 mm^2/s (100 °C) (ASTM D445)

Section 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (see section 7, handling and storage).

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No decomposition if used according to specifications.

10.5 Incompatible materials

No data available if used for its intended purpose.

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed.

Section 11: Toxicological information

11.1 Information on toxicological effects

Mutagenicity test according to Ames: (experimental) negative.

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Acute toxicity:
Oral (rat): LD50> 5000 mg/kg (OECD Guideline 401)

Inhalation (rat): LD50> 5 mg/l

Dermal (rabbit): LD50> 5000 mg/kg

Skin corrosion/irritation:
Not irritating to skin.

Skin corrosion/irritation rabbit: Slightly irritating (Draize test)

Serious eye damage/irritation:
Serious eye damage/irritating rabbit: Slightly irritating (Draize test)

Respiratory or skin sensitization:
No sensitization.

CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):
No data available.

STOT-single exposure and repeated exposure:
No data available.

Additional information:
No data available.

Section 12: Ecological information

12.1 Toxicity

Acute fish toxicity:	LC50 > to 100 mg product/L Method: DIN EN ISO 7346-2
Acute daphnia toxicity:	No data available.
Acute algae toxicity:	No data available.

12.2 Persistence and degradability

Readily and rapidly degradable: all individual organic substances contained in the product achieve values in tests for ready degradability (e.g. OECD 301 A-F) of at least 60% BOD/COD or 70% DOC reduction (tolerance value for classification as “readily degradable”:>=70% DOC reduction or >=60% BOD/COD in 28 days)

12.3 Bioaccumulative potential

Based on best current information, there is no data known associated with this product.

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12.4 Mobility in soil

The product is insoluble in water, so the mobility is soil is low.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Section 14: Transport information

Not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR

14.1 Land transport (ADR)

This product is not regulated as a hazardous material.

14.2 Sea transport (IMDG)

This product is not regulated as a hazardous material.

14.3 Air transport (IATA)

This product is not regulated as a hazardous material.

14.4 Additional information

No other information available.

Section 15: Regulatory information

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

Authorisations:	No information available.
Restrictions on use:	No information available.
EINECS:	CAS# 36653-82-4 is listed in the inventory.
DSD (67/548/EEC):	CAS# 36653-82-4 is not listed in the Annex I.
Other chemical regulation:	No information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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Section 16: Other information

16.1 Revision Information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee and particular properties.

16.2 Abbreviations and acronyms

CLP: EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

EINECS: European Inventory of Existing Commercial Chemical Substances.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

OSHA: The United States Occupational Safety and Health Administration.

TSCA: Toxic Substances Control Act, The American chemical inventory.

DSD: Dangerous Substance Directive (67/548/EEC).

IECSC: Inventory of existing chemical substances in China.

DSL: Domestic Substances List, The Canadian chemical inventory.

AICS: The Australian Inventory of Chemical Substances.

ENCS: Japanese Existing and New Chemical Substances.

16.3 Key literature references and sources for data

ESIS IUCLID Dataset: European chemical Substances Information System.

ECHA's public database with information on registered substances.

16.4 Relevant R-phrases and H-statements

R20/21 Harmful by inhalation and in contact with skin.

R50 Very toxic to aquatic organisms.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H400 Very toxic to aquatic life.

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16.5 Training advice

Provide adequate information, instruction and training for operators.

16.6 Disclaimer

As the users' condition of work is not known, the information contained in this Material Safety Data Sheet is accurate to the best of our knowledge and is based on the national community regulations. The product must not be employed for uses other than those specified without having previously obtained written handling instructions. Users are responsible for taking all necessary to comply with the requirements of the law and local regulations. The information contained in this sheet should be regarded as the description of the safety requirements relating to our products and not as a guarantee of its properties.