

SAFETY DATA SHEET

Version: 1.0 Date: 22.05.2018



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 (SDS)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Nordic Liquid Oil Candles
Alternative names	Liquid Oil Cartridges / Liquid Oil Candles
Product code(s)	10101, 10201, 10301, 10401, 10501, 10601, 10701, 10801, 11101
Chemical Name	Tetradecane
CAS No.	629-59-4
EINECS No.	211-096-0

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

Identified Use(s)	As table lighting inserted into table lamps
Uses Advised Against	Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Company Identification	PJ Nordic A/S Under Egen 20 DK-7500 Holstebro +45 50900087 www.pjnordic.com info@pjnordic.com
Telephone	
Web	
E-Mail (competent person)	

1.4 Emergency telephone number

Emergency Phone No.	+(45) 82 12 12 12 Giftinformation (DK), Bispebjerg Hospital (open 24 hours)
Languages spoken	English spoken

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Asp. Tox. 1; H304
Skin Irrit. 2; H315

2.2 Label elements

Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Pure Light Liquid Oil Candles
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Hazard Pictogram(s)



Signal Word(s)

DANGER

Hazard Statement(s)

H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.

Precautionary Statement(s)

P102: Keep out of reach of children.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331: Do NOT induce vomiting.
P362+P364: Take off contaminated clothing and wash it before reuse.

Supplemental information

None

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2.3 Other hazards

Combustible liquid

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Tetradecane	629-59-4	211-096-0	01-2119485515-31-0004	100

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

Ensure adequate ventilation. Avoid breathing vapours. Wear suitable protective clothing and gloves. Contaminated clothing should be laundered before reuse.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation.

IF ON SKIN (or hair): Wash with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways. Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

In case of fire use water fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing Media

None known. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Combustible liquid. Combustion may cause toxic fumes. (Carbon monoxide, Carbon dioxide)

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all ignition sources. Ensure adequate ventilation. Wash hands thoroughly after handling. Wear appropriate personal protective equipment, avoid direct contact. Do not ingest. May be fatal if swallowed and enters airways. Avoid breathing vapours. Ensure that the equipment is adequately grounded.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Land spill: Eliminate sources of ignition. Stop leak if safe to do so. Absorb spillage in inert material and shovel up. Transfer to a container for disposal or recovery. Use water spray to cool and disperse vapours and protect personnel. Ventilate the area and wash spill site after material pick-up is complete. Use only non-sparking tools. Avoid run off to waterways and sewers. Dispose of contents in accordance with local, state or national legislation.

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Water spill: Stop leak if safe to do so. Soak up with inert absorbent. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

See Section: 8, 13

6.4 Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated (dry) place. Store products enclosed, in original packing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage temperature
Incompatible materials

Ambient temperatures. Stable under normal conditions.

Unsuitable containers: Natural rubber, Polystyrene, Ethylene-propylene-diene monomer (EPDM).

7.3 Specific end use(s)

See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Not established.

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

Use personal protective equipment as required. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Eye/face protection



Eye Protection: Not normally required.

Recommended: Wear suitable face shield.

Skin protection



Wear suitable gloves if prolonged skin contact is likely. Recommended: Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Wear suitable coveralls to prevent exposure to the skin.

Respiratory protection



Respiratory protection is not necessary if room is well ventilated. A suitable mask with filter type A (EN141 or EN405) may be appropriate. Recommended: EN149, EN143.

Thermal hazards

Not applicable

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, Oily liquid
Odour	Odourless
Odour Threshold	Not determined.
pH	Not determined.
Melting Point/Freezing Point	6 °C (ASTM D 5950)
Initial boiling point and boiling range	252 – 260 °C (ASTM E537-07)
Flash point	105 °C [Closed cup]
Evaporation Rate	Not determined.
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	< 5 Pa @ 20 °C (NFT 20-048)
Vapour density	Not determined.
Relative density	0.763 g/cm ³ (ASTMS D 4052-96)
Solubility(ies)	Insoluble in water. (QSAR, SPARC v4.2)
Partition coefficient: n-octanol/water	Log Pow 8.11 (QSAR, SPARC v4.2)
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	2.81 mm ² /s @ 20 °C
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None known. Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5 Incompatible materials	Natural rubber, Polystyrene, Ethylene-propylene-diene monomer (EPDM).
10.6 Hazardous decomposition product(s)	Combustion may cause toxic fumes. (Carbon monoxide, Carbon dioxide)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met. LD50 (oral, rat) mg/kg: >15 000 mg/kg bw/day (OECD 423)
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met. LC50 (Inhalation, rat) mg/m ³ : >4 951 (OECD 403)
Acute toxicity - Skin Contact	Based upon the available data, the classification criteria are not met. LD50 (skin, rabbit) mg/kg: >5 000 mg/kg bw/day (OECD 402)
Skin corrosion/irritation	Skin Irrit. 2; H315: Causes skin irritation. Irritating to skin. (rabbit) (OECD 404)
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met. Not irritating to eyes (OECD 405)
Respiratory or skin sensitization	Based upon the available data, the classification criteria are not met. Respiratory sensitization: No data Skin sensitization: Negative (Guinea pig) (OECD 406)
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met. In vitro: Negative (OECD 471) In vivo: Negative (mouse) (OECD 474)
Carcinogenicity	Based upon the available data, the classification criteria are not met. It is unlikely to present a carcinogenic hazard to man.
Reproductive toxicity	Based upon the available data, the classification criteria are not met. Reproductive toxicity: NOEC (rat) > 400 ppm. Effects on fertility - Negative (OECD 413)

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STOT - single exposure

STOT - repeated exposure

Aspiration hazard

11.2 Other information

Developmental toxicity: NOAEL (rat) mg/kg bw/day >2000. Maternal toxicity: NOAEL mg/kg bw/day 500. Studies in animals have shown that exposures produce no teratogenic effects. (OECD 413)

Based upon the available data, the classification criteria are not met.

No adverse effects observed on general toxicity endpoints

Based upon the available data, the classification criteria are not met.

Oral: NOAEL (rat) mg/kg bw/day >1000 (OECD 422)

Inhalation: NOAEL (rat) mg/m³ 10186. No STOT classification is proposed, as none of the observed effects were considered severe enough to merit classification by the inhalation route (OECD 413)

Dermal: No data

Asp. Tox. 1; May be fatal if swallowed and enters airways.

Viscosity: 2.81 mm²/s @ 20 °C (ASTM D 446/11, Unnamed, 2010).

Tetradecane = Hydrocarbon.

None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Based upon the available data, the classification criteria are not met.

Acute toxicity: LL50 (Fish) mg/l >10 < 30 (96 hour) (OECD 203)

Chronic Toxicity: NOELR mg/l >1000 (28 days) (QSAR)

12.2 Persistence and degradability

Readily biodegradable. 89.8% @ 28 days (OECD 301)

12.3 Bioaccumulative potential

BCF: 962.9 l/kg

12.4 Mobility in soil

Log Kow: 6.98

12.5 Results of PBT and VPVB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this material and its container as hazardous waste. Dispose of empty containers and wastes safely. Do not apply pressure to empty containers. Dispose of contents in accordance with local, state or national legislation.

13.2 Additional Information

None

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	None	None	None
14.2 UN proper shipping name	None	None	None
14.3 Transport hazard class(es)	None	None	None
14.4 Packing group	None	None	None
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.		
14.8 Additional Information	None		

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or Restrictions On Use

None.

15.1.2 National regulations

Germany

Water hazard class: 1

15.2 Chemical Safety Assessment

Not available.

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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

References:

Existing ECHA registration(s) for Tetradecane (CAS No. 629-59-4)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Asp. Tox. 1; H304	Expert judgement
Skin Irrit. 2; H315	Test Result

LEGEND

LTEL: Long Term Exposure Limit

DNEL: Derived No Effect Level

PBT: PBT: Persistent, Bioaccumulative and Toxic

STEL: Short Term Exposure Limit

PNEC: Predicted No Effect Concentration

vPvB: very Persistent and very Bioaccumulative

Hazard Statement(s)

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Not available.