

SAFETY DATA SHEET

Version: 2.0 Revision date: 22.12.2022

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 2020/878



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

- 1.1 Product identifier**
Product Name PJ Nordic Liquid Oil Candles
Alternative names Liquid Oil Cartridges / Liquid Oil Candles, NP olielys
Product code(s)
Substance name Tetradecane
CAS No. 629-59-4
EINECS No. 211-096-0
REACH No. 01-2119485515-31-0004
Unique Formula Identifier (UFI) not applicable - Substance
Nanoform The product does not contain nanoparticles.
- 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
Baelumvej 25
DK-9575 Terndrup
+45 50900087
Telephone
E-Mail (competent person) info@pinordic.com
- 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
- 2.2 Label elements**
Product Name According to Regulation (EC) No. 1272/2008 (CLP)
Pure Light Liquid Oil Candles
Substance name Tetradecane
CAS No. 629-59-4
EINECS No. 211-096-0
Hazard Pictogram(s)
- Signal Word(s) DANGER
- Hazard Statement(s) H304: May be fatal if swallowed and enters airways.
- Precautionary Statement(s) P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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P331: Do NOT induce vomiting.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information

EUH066: Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Combustible liquid. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

Treat symptomatically.

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.

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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. 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	Ambient temperatures. Stable under normal conditions.
	Incompatible materials	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	Ensure adequate ventilation Guarantee that the eye flushing systems and safety showers are located close to the working place.

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.

8.2.2	Individual protection measures, such as personal protective equipment	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.
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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.

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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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Oily liquid
Colour	Clear
Odour	Odourless
Melting point/freezing point	6 °C (ASTM D 5950)
Boiling point or initial boiling point and boiling range	252 – 260 °C (ASTM E537-07)
Flammability	Combustible
Lower and upper explosion limit	not determined
Flash point	105 °C (Closed cup)
Auto-ignition temperature	not determined
Decomposition temperature	not determined
pH	not determined
Kinematic viscosity	2.81 mm ² /s (20 °C)
Solubility	Insoluble in water. (QSAR, SPARC v4.2)
Partition coefficient: n-octanol/water (log value)	8.11 (QSAR, SPARC v4.2)
Vapour pressure	< 5 Pa @ 20 °C (NFT 20-048)
Density and/or relative density	0.763 g/cm ³ (ASTMS D 4052-96)
Relative vapour density	not determined
Particle characteristics	not applicable - solid

9.2 Other information

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

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 hazard classes as defined in

Regulation (EC) No 1272/2008

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/m³: >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

EUH066: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

Based upon the available data, the classification criteria are not met.
Not irritating to eyes (OECD 405)

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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) 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)
STOT - single exposure	Based upon the available data, the classification criteria are not met. No adverse effects observed on general toxicity endpoints
STOT - repeated exposure	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/m ³ 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
Aspiration hazard	Asp. Tox. 1; May be fatal if swallowed and enters airways. Viscosity: 2.81 mm ² /s @ 20 °C (ASTM D 446/11, Unnamed, 2010). Tetradecane = Hydrocarbon.
11.2 Other information	
11.2.1 Endocrine disrupting properties	This substance does not have endocrine disrupting properties with respect to humans.
11.2.2 Other information	None known

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	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
12.6 Endocrine disrupting properties	This substance does not have endocrine disrupting properties with respect to non-target organisms.
12.7 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. HP 5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	
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	ADN	IMDG	IATA/CAO
14.1 UN number or ID number	None	None	None	None

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14.2	UN proper shipping name	None	None	None	None
14.3	Transport hazard class(es)	None	None	None	None
14.4	Packing group	None	None	None	None
14.5	Environmental hazards	Not classified	Not classified	Not classified	Not classified
14.6	Special precautions for user	See Section: 2			
14.7	Maritime transport in bulk according to IMO instruments	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	
	Use restriction according to REACH annex XVII, no.:	3
	Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]	not relevant / not applicable
	Directive 2010/75/EU on industrial emissions	This substance/mixture does not contain any volatile organic compounds in the sense of Directive 2010/75/EU.
	Regulation (EU) 649/2012 (PIC)	The substance is not listed.
	Regulation (EC) 2019/1021 [POP Regulation]	The substance is not listed.
	Restrictions of occupation:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
	To follow:	Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
15.1.2	National regulations	
	Ireland	
	S. I. No. 619/2001	The substance is not listed.
	Germany	
	Water hazard class (WGK)	slightly hazardous to water (WGK 1)
15.2	Chemical Safety Assessment	Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New format has been issued, all sections have been updated to include new information. Review SDS with care.

Date of First Issue: 22.05.2018

Date of issue: 22.12.2022

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) & 2020/878

LEGEND

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DIN	German Institute for Standardisation
DNEL	Derived no effect level
EU	European Union

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EC	European Community
EC50	Effect concentration; 50 %
EL50	Effective loading rate; 50 %
ECHA	European Chemicals Agency
EN	European Standard
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
LC50	Lethal concentration at which 50% of the population is killed
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
MARPOL	The International Convention for the Prevention of Pollution from Ships
NOAEL	No Observed Adverse Effect Level
NOAEC	No observed adverse effect concentration
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	very Persistent and very Bioaccumulative
UN	United Nations
VOC	Volatile organic compounds

Hazard classification / Classification code:

Asp. Tox. 1; Aspiration hazard, Category 1

Hazard Statement(s)

H304: May be fatal if swallowed and enters airways.

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.

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Annex to the extended Safety Data Sheet (eSDS)

Not available.