

SAFETY DATA SHEET

Issuing Date: 17-Apr-2010

Revision Date: 30-Jun-2017

Version 21.03

according to Regulation (EC) No. 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Nordic Vegetable oil candles
Product Identifier	15201,15211,15301,15311,15401,15406,18101
Synonyms	CE-1214
REACH registration number	01-2119491160-46-0002 01-2119491160-46-0000
Issuing Date:	17-Apr-2010
Version	21.03
Revision Date:	30-Jun-2017
Supersedes Date: 1.2 Relevant identified uses of the	08-Dec-2015 substance or mixture and uses advised against
Recommended Use	Ambient light
Uses advised against	None known.
1.3 Details of the supplier of the sa	fety data sheet

Supplier

PJ Nordic A/S Under Egen 20 DK-7500 Holstebro info@pjnordic.com

1.4 Emergency Telephone Number

For Emergency Contact NCEC Tel: +(45) 82 12 12 12 Giftinformation (DK), Bispebjerg Hospital (open 24 hours)

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

GHS / CLP - Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS].

2.2 Label elements

Label according to Regulation (EC) No. 1272/2008

Hazard pictograms	None
Signal Word	None
Hazard Statements	None
Precautionary Statements	None
2.3 Other hazards	

Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances							
Chemical Name	CAS-No	Weight %	REACH Registration No	EC-No	GHS / CLP Classificatio n 1272/2008 [CLP]	EC Index Number	Notes
Fatty acids, C12- 14, Me esters	308065- 15-8	100	01-21194911 60-46-0002; 01-21194911 60-46-0000	629-776-4	NC		

3.2 Mixtures

Not applicable

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with plenty of water.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms and	effects, both acute and delayed.
Main Symptoms	No information available.
4.3 Indication of any immediate me	edical attention and special treatment needed.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Alcohol-resistant foam. Water spray or fog. Dry chemical.

Extinguishing Media Which Must Do NOT use water jet. Not Be Used For Safety Reasons

5.2 Special hazards arising from the substance or mixture

Special hazardMay emit toxic fumes under fire conditions. Carbon monoxide, carbon dioxide and
unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Protective equipment and precautions for firefighters	Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures						
For non-emergency personnel	Use personal protective equipment.					
Advice for emergency responders	Wear protective gloves/protective clothing and eye/face protection. In the case of vapor formation use a respirator with an approved filter.					
6.2 Environmental precautions						
Environmental precautions	Dike far ahead of spill; use dry sand to contain the flow of material. Keep out of drains, sewers, ditches and waterways.					
6.3 Methods and materials for cont	ainment and cleaning up					
Methods for containment	Ventilate the area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.					
Methods for cleaning up	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.					
6.4 Reference to other sections						
Other information	No information available.					
7. HANDLING AND STORAGE						

7.1 Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact skin, eyes or clothing. Wash thoroughly after handling. Since empty containers retain product residue, follow label warnings even after container is emptied. Keep away from open flames, hot surfaces and sources of ignition. 7.2 Conditions for safe storage, including any incompatibilities					
Storage Conditions	Can be stored in most common storage vessels including carbon steel, aluminum, fiberglass and stainless steel. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials.				

7.3. Specific end use(s)

Specific end uses

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Guidelines

Recommended monitoring procedures

No information available. Not available

Predicted No Effect Concentration ('NEC)

Chemical Name	Fresh Water	Marine water	Intermittent release
Fatty acids, C12-14, Me esters	2 mg/L	0.2 mg/L	0.00255 mg/L

Chemical Name	Freshwater sediment	Marine sediment	Sewage treatment plant	Soil	air	Oral		
Fatty acids, C12-14, Me esters	26.6 mg/kg	2.66 mg/kg	100 mg/L	10 mg/kg dw		66.6 mg/kg		
8.2 Exposure controls								
Engineering Measures Use with local exhaust ventilation. Mechanical - may be necessary if working at elevate temperatures or in enclosed areas.								
Personal protective equ	uipment							
General information	Ha	andle in accordanc	e with good indust	rial hygiene and s	afety practice.			
Eye Protection	W	ear safety glasses	with side shields (or goggles). Wea	r suitable face shi	eld.		
Hand Protection	br co	Neoprene gloves. Nitrile rubber. 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.						
Skin and Body Protection	on W	ear protective glov	es and protective	clothing.				
Respiratory Protection	No	No special protective equipment required.						
Thermal hazards	No	Not available.						
Hygiene Measures	Ha	andle in accordanc	e with good indust	rial hygiene and s	afety practice.			
Environmental exposur	e controls	ot available.						

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State @20°C

Liquid

Form	Liquid	
Color	Water white to Yellow	
Odor	Musty	
<u>Property</u>	<u>Values</u>	Note
рН	Not available	
Melting/freezing point	6.5 °C / 43.7 °F	
Boiling point / boiling range	261.85 - 295.85 °C / 503.33 - 564.53 °F	<u>.</u>
Flash point	141.5 °C / 286.7 °F	Closed cup
Evaporation rate	Not available	
Upper flammability limit	Not available	•
Lower Flammability Limit	Not available	
Flammability (solid, gas)	Not available	@ 25 °C
Vapor pressure	< 0.55 Pa	@ 20 0
Vapor density	Not available	
Relative density	867.1 - 870.2 kg/m ³	
Solubility	< 0.06 mg/l @ 20° C	
Partition Coefficient (n-octanol/water)	5.4 - 6.4	
Autoignition temperature	220 °C / 428 °F	
Decomposition temperature	Not available	@ 20 °C
Viscosity	Not available	
Explosive properties	Not applicable	
Oxidizing properties	Not available	
Dissociation constant (Henry)	Not available	
9.2 Other information		
Viscosity, dynamic	3.65 mPa s	
Specific gravity	Not available	
Surface tension	Not available	
Density	Not available	
	10. STABILITY AND REACTIV	/ITY
10.1 Reactivity		

10.1 Reactivity

Strong oxidizing agents. Strong bases.

Reactivity

10.2 Chemical stability

Stable under normal conditions. Stability

10.3 Possibility of hazardous reactions Hazardous polymerization None under normal processing.

10.4 Conditions to Avoid

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible Materials

Strong oxidizing agents. Strong bases. **Incompatible Materials**

10.6 Hazardous Decomposition Products

Hazardous Decomposition ProductsNone under normal use conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicityNot Classified. Based on the available data, the classification criteria are not met.Skin corrosion/irritation
eye damage/eye irritation
sensitizationNot Classified. Based on the available data, the classification criteria are not met. Serious
Not Classified. Based on the available data, the classification criteria are not met. Skin
Based on the available data, the classification criteria are not met. Skin
Based on the available data, the classification criteria are not met. Skin
Based on the available data, the classification criteria are not met. Respiratory sensitization
Not data available.

Germ cell mutagenicity Carcinogenicity Not Classified. Based on the available data, the classification criteria are not met. No data available.

Reproductive toxicity Not Classified. Based on the available data, the classification criteria are not met. **STOT - single exposure** Not Classified. Based on the available data, the classification criteria are not met. **STOT - repeated exposure** Not Classified. Based on the available data, the classification criteria are not met. **Aspiration hazard** Not Classified. Based on the available data, the classification criteria are not met. **Aspiration hazard** Not Classified. Based on the available data, the classification criteria are not met.

Chemical Name		C	AS-No	Oral LD50	Derma	LD50	In	halation LC50	
Fatty acids, C12-14, Me	esters	308	8065-15-8	LD50: 2000 mg/kg, b	w, -	-		LC50: > 5 mg/L, 4 hours,	
				OECD 401, Read-across		OECD 436, Read-act		436, Read-across	
				111-82-0. Species: R	Rat		111-8	32-0, Species: Rat	
Chemical Name	Carcin	ogenicity	Developmenta toxicity	I Eye Damage	Mutagenicity	Germ (Mutagen Chromos aberrat	icity: some	Germ Cell Mutagenicity: Ames Test	
Fatty acids, C12-14, Me esters			NOAEL: 1000 mg/kg bw/day, OECD 414, Read-across 22047-49-0, Result: No effec Species: Rat	irritating, Test Duration: 24 hours, Observation		OECD 4 Read-acros 82-0, Re Negative, S CHL/I	ss 111- sult: pecies:	OECD 471. Read-across 111- 82-0. Result: Negative. Species: Salmonella Typhimurium (Salmonella enterica)	
Chemical Name	Neur	ological	Effects on fertil	ty Reproductive	Skin	Toxicokin	netics,	Sensitization	
	Ef	fects		toxicity	corrosion/irritation	metabolis	m and		
					n	distribu	tion		
Fatty acids, C12-14, Me esters				NOAEL: 1000 mg/kg bw, OECD 422, Read-across 67762-38-3, Result: No effect, Species: Rat	OECD 404, Read-across 111-82-0, Result: Not irritating, Tesi Duration: 4 hours Species: Rabbit	Rapid	ross Result: lly sed,		
Chemical Name		Skin s	ensitization	STOT - single exposu	ure STOT - r	epeated	As	piration hazard	
					ехро	sure			
Fatty acids, C12-14, Me		Method B, 111-82- sensitis	DECD 406, EU 6. Read-across 0, Result: Not ing, Species: uinea pig		bw/day, Su OECD 408, R 111-62-6,	.: 5500 mg/kg , Sub-chronic, 8, Read-across -6, Result: No Species: Rat			
	12. ECOLOGICAL INFORMATION								

12.1 Ecotoxicity

Acute toxicity

Chemical Name	CAS-No	Toxicity to Fish	Toxicity to algae	Toxicity to	Toxicity to	Toxicity to other
		(LC50)*	(EC50)*	daphnia and	Microorganisms	organisms
				other aquatic	(EC50)*	
				invertebrates	· · ·	
				(EC50)*		

Fatty acids, C12-14, Me esters	308065-15-8	LC50: > 1 mg/L, 96 hours, OECD 203. Read-across 111- 82-0, Species: Japanese rice-fish (Oryzias latipes)	72 hours, OECD	7 days, OECD 211, Species: Water flea (Daphnia magna)	NOEC: =>1000 mg/kg, 3 hours, OECD 209, Read-across 111- 82-0, Species: Activated sludgge of a predominantly domestic sewage	-
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Chronic Toxicity

Chemical Name	CAS-No	Toxicity to fish (NOEC or ECx)*	Toxicity to algae (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*	Toxicity to other organisms
Fatty acids, C12-14, Me esters	308065-15-8			NOELR: >100 mg/L, 21 days, OECD 211. Species: Water flea (Daphnia magna)	NOEC >= 1000 mg/l, 3 hours, OECD 209. Read-across 111- 82-0. Activated sludge of a predominantly domestic sewage	NOEC: 1000 mg/kg, 28 days, Soil dw. OECD 222. Read-across 111-82-0. Species: Earthworm (Eisenia fetida)

12.2 Persistence and degradability

Persistence and degradability

Chemical Name	CAS-No	Biodegra	eady adation Test CD 301)	Percent degra (Aerobi biodegrada	c	Percent degradatio (Aerobic biodegradation-so	(Anaerobic
Fatty acids, C12-14, Me esters	308065-15-8			78%, OECD 3 Test Duratic days, Read-a 111-82-0, R Readily biodegrada Species: Act sludge of predomina domestic see	on: 28 across esult: / able, ivated f a untly		
Chemical Name	CAS-N	0		egradation olysis	(Phote	Half-life olysis-aqueous)	Abiotic Degradation Photolysis
Fatty acids, C12-14, Me este	ers 308065-1	5-8	. ,	7,283 yr at 25 OWIN v2,00.			29.2 h DT50 (24h day), AOPWIN v1,92.

12.3 Bioaccumulative potential

Bioaccumulative potential

Chemical Name	CAS-No	Octanol/water partition coefficient	Bioconcentration factor (BCF)
Fatty acids, C12-14, Me esters	308065-15-8	5.41 - 6.41	201 L/kg, BCFBAF v3.01, Species: Fish

12.4 Mobility in soil

Mobility

Chemical Name	CAS-No	log Koc	Dissociation constant (Henry)
Fatty acids, C12-14, Me esters	308065-15-8	3.85 @ 25 °C, KOCWIN v2.0	

12.5 Results of PBT and vPvB assessment

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PBT and vPvB assessment
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The components in this formulation do not meet the criteria for classification as PBT or vPvB.

<u>12.6 Other adverse effects</u> Other adverse effects	No information available.				
13. DISPOSAL CONSIDERATIONS					
13.1 Waste treatment methods					
Waste from Residues / Unused Products	Keep out of drains, sewers, ditches and waterways. Disposal should be in accordance with applicable regional, national and local laws and regulations.				
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.				
EWC Waste Disposal No	Not available.				
Disposal recommendations	Keep out of drains, sewers, ditches and waterways. Disposal should be in accordance with applicable regional, national and local laws and regulations.				
13.2 Additional information.					
Additional information	No information available.				
14. TRANSPORT INFORMATION					

IMDG

 14.1 UN Number 14.2 UN Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing Group 14.5 Environmental Hazards 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code 	Not regulated Not regulated Not regulated Not regulated Not regulated None No information available
Pollution Category Ship Type	Pollution Category: Y Ship Type: 2
IATA 14.1 UN no 14.2 UN Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Environmental Hazards 14.6 Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not regulated None
ICAO 14.1 UN no 14.2 UN Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Environmental Hazards 14.6 Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not regulated None
ADR 14.1 UN no 14.2 UN Proper shipping name 14.3 Hazard Class 14.4 Packing Group 14.5 Environmental Hazards	Not regulated Not regulated Not regulated Not regulated Not regulated

14.6 Sp	ecial precautions for user	None
<u>RID</u>		
14.1 UN	l no	Not regulated
14.2 UN	I Proper shipping name	Not regulated
14.3 Ha	zard Class	Not regulated
14.4 Pa	cking Group	Not regulated
14.5 En	vironmental Hazards	Not regulated
14.6 Sp	ecial precautions for user	None
ADN		
14.1 UN	l no	Not regulated
14.2 UN	I Proper shipping name	Not regulated
14.3 Ha	zard Class	Not regulated
14.4 Pa	cking Group	Not regulated
14.5 En	vironmental Hazards	Not regulated
14.6 Sp	ecial precautions for user	None
		15 REGULAT

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substa	<u>nce or mixture</u>			
<u>EU Regulations</u> Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I	Not Listed			
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, Part A	Not Listed			
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, Part B	Not Listed			
Persistent Organic Pollutants per (EC) 850/2004 - Annex 1 - Substances Subject to Prohibition	Not Listed			
European Pollutant Release and Transfer Registry (E-PRTR) (166/2006) - Threshold Quantities	Not Listed			
<u>AUTHORIZATIONS - REACH Title VII</u> Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation	Not Listed			
Restrictions on Use Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction Not Listed on marketing and use as amended Other Regulations This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006				
National regulatory information Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC				
15.2 Chemical Safety Assessment				
<u>Chemical Safety Assessment</u> A Chemical Safety Assessment has been carried out for this substance				
WGK - Classification (VwVwS) WGK 1				
International Inventories Australian Inventory of Chemical Substances (AICS) Canadian Domestic Substances List (DSL) Canadian Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances (IECSC)	- - -			

Europe European List of Notified Chemical Substances (ELINCS)

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European Inventory of Existing Commercial Chemical Substances (EINECS)	-
Japan Existing and New Chemical Substances (ENCS)	-
Korean Existing and Evaluated Chemical Substances (KECL)	-
New Zealand Inventory of Chemicals (NZIoC)	-
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	-
Taiwan	Complies
United States Toxic Substances Control Act Section 8(b) Inventory (TSCA)	-

16. OTHER INFORMATION

16.1 Indication of changes

Issuing Date: 17-Apr-2010 Revision Date: 30-Jun-2017 Reason for revision SECTION 14: Transport information

Change in

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road CAS-No: Chemical Abstracts Service number CLP - The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) EINECS: European Inventory of Existing Commercial Chemical Substances EC-Number: EINECS and ELINCS Number (see also EINECS and ELINCS) EC50: Calculated concentration causing a 50% reduction in cellular reproduction GHS- Globally Harmonized System of Classification and Labeling of Chemicals (GHS) IATA - International Air Transport Association LC50: Lethal Concentration to 50% of a test population LD50: Lethal Dose to 50% of a test population LD50: Lethal Dose to 50% of a test population (Median Lethal Dose) PVC- Polyvinylchloride REACH- Registration, Evaluation and Authorization of Chemicals STEL - Short term exposure limit STP- Sewage treatment plant

16.3 Key literature references and sources for data

No information available

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

16.5 Full text of H-Statements referred to under sections 2 and 3

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

16.6 Training Advice

No information available

16.7 Further information

Disclaimer

The submission of the SDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health. The information contained herein has been compiled from sources considered by PJ Nordic A/S to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. PJ Nordic A/S assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.

End of SDS