



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 38134

NEVASTANE LUBE AEROSOL

Date of the previous version: 2013-07-19

Revision Date: 2015-04-30

Version 3

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

1.1. Product identifier

Product name	NEVASTANE LUBE AEROSOL
Number	PC4
Substance/mixture	Mixture

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

Identified uses	Grease for incidental food contact.
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1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL UK LIMITED One Euston Square 40 Melton Street. London. NW1 2FD UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033
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For further information, please contact:

Contact Point	Specific Product Related Info : 01977 636200
E-mail Address	rm.gb-msds@total.co.uk

1.4. Emergency telephone number

00 33 149 00 00 49 (24h/24, 7d/7)
TOTAL UK Ltd: + 44 (0) 20 7339 8000
For Lubricants only: TOTAL Lubricants - +44 (0)1977 636200
For bitumen only: Total Bitumen +44 (0) 17 7272 9302

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008 ***

*For the full text of the H-Statements mentioned in this Section, see Section 2.2.****

Classification***

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008***

Aerosols*** - Category 1*** - (H222)***

Aspiration toxicity - Category 1*** - (H304)***

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Specific target organ systemic toxicity (single exposure) - Category 3*** - (H336)***

Chronic aquatic toxicity - Category 2*** - (H411)***

DIRECTIVE 67/548/EEC or 1999/45/EC*For the full text of the R-phrases mentioned in this Section, see Section 16.*

The substance/mixture is classified as dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

Symbol(s)

F+ - Extremely flammable

N - Dangerous for the environment

Classification

F+; R12 - R66 - R67 - N; R51-53

2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008***

**Signal Word**

DANGER***

Hazard Statements ***

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated***

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects***

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Do not pierce or burn, even after use

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation

P102 - Keep out of reach of children***

Supplemental Hazard Statements

EUH066 - Repeated exposure may cause skin dryness or cracking***

2.3. Other hazards

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Physical-Chemical Properties Aerosol: Pressurised container. This product contains a flammable component.

Environmental properties Should not be released into the environment.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture***

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	Classification (Dir. 67/548)	GHS Classification
Hydrocarbons, C8-C9, isoalkanes***	932-020-9* **	01-2119548395-31	^	50-100	R10 Xn;R65 R66 R67 N;R51-53	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)***
carbon dioxide***	204-696-9	no data available	124-38-9	2.5-10	-	

Additional information Propellant gas: Carbon dioxide.

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse.***
Inhalation	remove casualty to fresh air and keep at rest in a position comfortable for breathing.***
Ingestion	Do not ingest. If swallowed then seek immediate medical assistance. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.***
Protection of first-aiders	Use personal protective equipment.

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

Eye contact	Not classified. Burning feeling and temporary redness.***
Skin contact	Not classified. Repeated exposure may cause skin dryness or cracking.***

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Inhalation	Vapours may cause drowsiness and dizziness. Vapours inhaled in strong concentration have a narcotic effect on the central nervous system.***
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).***

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam. Dry chemical. Carbon dioxide (CO₂).***

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Special hazard Contents are under pressure and can explode when exposed to heat or flames. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.***

5.3. Precautions for fire-fighters

Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information Not applicable due to the physical state of product.***

6.2. Environmental precautions

General Information Prevent entry into waterways, sewers, basements or confined areas. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

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Methods for cleaning up

Contain spillage, and then collect with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material. Contents under pressure: Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Personal protective equipment See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

When using, do not eat, drink or smoke. Remove all sources of ignition. Use only in well-ventilated areas. Do not breathe vapours or spray mist. For personal protection see section 8. Avoid contact with skin, eyes and clothing. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.***

Prevention of fire and explosion

Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Take precautionary measures against static discharges. Do not heat above 50 °C to avoid the risk of a pressure increase and an explosion (see section 10). Ensure adequate ventilation.***

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Avoid breathing vapours, mist or gas. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.***

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from frost, heat and sunlight. Keep away from open flames, hot surfaces and sources of ignition. Keep at temperatures below 50 °C / 122 °F. For safety reasons in case of fire, cans should be stored separately in closed containments.***

Materials to avoid

Acids. Oxidizing agents.***

7.3. Specific use(s)

Specific use(s)

No information available.***

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parametres

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Exposure limits

Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)

Chemical Name	European Union	The United Kingdom	Ireland
carbon dioxide*** 124-38-9	TWA 5000 ppm TWA 9000 mg/m ³	STEL 15000 ppm STEL 27400 mg/m ³ TWA 5000 ppm TWA 9150 mg/m ³	TWA 5000 ppm TWA 9000 mg/m ³

Legend

See section 16

DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Hydrocarbons, C8-C9, isoalkanes*** ^			773 mg/kg bw/day (dermal) 2035 mg/m ³ /8h (inhalation)	

DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Hydrocarbons, C8-C9, isoalkanes*** ^			699 mg/kg bw/day (dermal) 608 mg/m ³ /24h (inhalation) 699 mg/kg bw/day (oral)	

8.2. Exposure controls

Occupational Exposure Controls

Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment

General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Respiratory protection

When using a mask or half mask :. Type A/P2. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses. Warning ! filters have a limited use duration.***

Eye protection

If splashes are likely to occur, wear:. Safety glasses with side-shields.

Skin and body protection

Long sleeved clothing. Antistatic boots. Impervious gloves.

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Hand protection

Protective 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, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.***

Environmental exposure controls**General Information**

Do not allow material to contaminate ground water system.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Colour		colourless	
Physical state @20°C		Aerosol	
Odour		slight	
Property	Values	Remarks	Method
pH		Not applicable***	
Boiling point/boiling range ***	145*** °C*** 293*** °F***		
Flash point ***	27*** °C*** 81*** °F***		Closed cup Closed cup
Evaporation rate		No information available***	
Flammability Limits in Air		No information available	
Vapour pressure		No information available***	
Vapour density		No information available***	
Density	795 kg/m ³	@ 25 °C	
Water solubility		Insoluble***	
Solubility in other solvents		No information available***	
logPow		No information available***	
Autoignition temperature ***	> *** 220*** °C***	***	***
***	> *** 428*** °F***	***	***
Viscosity, kinematic ***	***	No information available ***	***
Explosive properties	May form explosive mixtures with air		
Oxidising properties	Not applicable		
Possibility of hazardous reactions	Not applicable		

9.2. Other information

No information available***

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

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Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions No information available.

10.4. Conditions to Avoid

Conditions to Avoid Temperatures above 50 °C.
Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.***

10.5. Incompatible materials

Materials to avoid Acids. Oxidizing agents.***

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Skin contact . Not classified. Repeated exposure may cause skin dryness or cracking.***

Eye contact . Not classified. Burning feeling and temporary redness.***

Inhalation . Vapours may cause drowsiness and dizziness. Vapours inhaled in strong concentration have a narcotic effect on the central nervous system.***

Ingestion . Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).***

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C8-C9, isoalkanes***	LD50 > 7100 mg/kg bw (rat - OECD 401)	LD50 (24h) > 2200 mg/kg bw (rabbit)	LC50 (4h) = 17300 -23300 mg/m ³ (vapour) (rat - OECD 403)

Sensitisation

Sensitisation Not classified as a sensitizer.

Specific effects

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Carcinogenicity This product is not classified carcinogenic.

Chemical Name	European Union
Hydrocarbons, C8-C9, isoalkanes*** ^	-***

Mutagenicity This product is not classified as mutagenic.

Chemical Name	European Union
Hydrocarbons, C8-C9, isoalkanes*** ^	-***

Reproductive toxicity This product does not present any known or suspected reproductive hazards.**Repeated Dose Toxicity****Subchronic Toxicity** No information available.**Target Organ Effects (STOT)****Target Organ Effects (STOT)** No information available.**Other information****Other adverse effects** Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C8-C9, isoalkanes*** ^	ErL50 (72h) = 10-30 mg/l (Pseudokirchneriella subcapitata - OECD 201) EbL50 (72h) = 10-30 mg/l (Pseudokirchneriella subcapitata - OECD 201)***	EL50 (48h) = 2,4 mg/l (Daphnia magna)	LL50 (96h) = 18,4 mg/l (Oncorhynchus mykiss - OECD 203)	-

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C8-C9, isoalkanes*** ^	NOELR (72h) = 6.3 mg/l (Pseudokirchneriella subcapitata - biomass - OECD 201) NOELR (72h) = 6.3 mg/l (Pseudokirchneriella subcapitata - growth rate - OECD 201)***	NOELR (21d) = 1 mg/l (Daphnia magna - OECD 211)	NOELR (28d) = 0,46 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

Effects on terrestrial organisms

No information available.

12.2. Persistence and Degradability

General Information

No information available.

12.3. Bioaccumulative potential

Product Information

No information available.

logPow

No information available***

Component Information

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12.4. Mobility in soil

Soil

No information available.

Air

No information available.

Water

The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available.

12.6. Other adverse effects

General Information

No information available.***

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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Waste from residues / unused products	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.***
Contaminated packaging	Empty containers may contain flammable or explosive vapours. Do not burn, or use a cutting torch on, the empty drum. Do not cut, weld, bore, burn or incinerate emptied containers, unless they have been cleaned and declared safe. Empty containers should be taken to an approved waste handling site for recycling or disposal.***
EWC Waste Disposal No	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard Class	2
ADR/RID-Labels	2.1
Environmental hazard.	yes
Classification Code	5F
Special Provisions	327, 625, 344, 190
Tunnel restriction code	(D)
Description	UN1950, AEROSOLS, 2.1, (D),
Excepted Quantity	E0
Limited quantity	1 L

IMDG/IMO

UN/ID No	UN1950
Proper shipping name	Aerosols
Hazard Class	2
Marine pollutant	P
EmS	F-D, S-U
Description	UN1950, Aerosols, 2.1 (See SP63), (32°C c.c.), Marine Pollutant, Limited Quantity
Special Provisions	63,190, 277, 327, 344, 959
Excepted Quantity	E0
Limited quantity	See SP277

ICAO/IATA

UN/ID No	UN1950
Hazard Class	2.1
Proper shipping name	Aerosols, flammable
ERG Code	10L
Special Provisions	A145, A167, A802
Description	UN1950, Aerosols, flammable, 2.1
Excepted Quantity	E0
Limited quantity	30 kg G

ADN

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UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard Class	2
Environmental hazard.	yes
Classification Code	5F
Special Provisions	190, 327, 344, 625
Description	UN1950, AEROSOLS, 2.1,
Excepted Quantity	E0
Limited quantity	1 L
Ventilation	VE01, VE04

Section 15: REGULATORY INFORMATION

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

European Union

Further information

No information available***

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available***

15.3. National regulatory information

The United Kingdom

- Avoid exceeding occupational exposure limits (see section 8).

Ireland

- Avoid exceeding occupational exposure limits (see section 8).

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10- Flammable

R12 - Extremely flammable

R65 - Harmful: may cause lung damage if swallowed

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapours may cause drowsiness and dizziness

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H226 - Flammable liquid and vapour
 H304 - May be fatal if swallowed and enters airways
 H336 - May cause drowsiness or dizziness
 H411 - Toxic to aquatic life with long lasting effects
 EUH066 - Repeated exposure may cause skin dryness or cracking***

Abbreviations, acronyms

Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

+	Sensitiser	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

Revision Date: 2015-04-30

Revision Note *** Indicates updated section.

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

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of Safety Data Sheet

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