

# Safety Data Sheet:

According to EC Regulation 1907/2006/EC - revision 453/2010 (REACH)

Print Date 02/18/2014

Creation Date 09/21/2010

Revision Date 02/10/2013

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

Product Name LUBESAN AEROSOL  
Product Code EP\_0251 V1

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

#### Recommended use

Lubricant.

### 1.3. Details of the supplier of the safety data sheet

CHEMSEARCH div. de NCH France SAS  
BP 102 - 77486  
PROVINS Cedex  
Tél. : 01 64 60 32 10 - Fax : 01 64 60 32 19

E-mail address fratech@nch.com  
Website address www.nch.com

### 1.4. Emergency telephone number

01 64 60 32 00 (available during Office Hours)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The preparation is classified as dangerous in accordance with Directive 1999/45/EC. In addition, Directive 2009/2/EC with the 31st Adaptation of Directive 67/548/EEC (Hazardous substances) has been taken into account.

F+ - Extremely flammable.

R12 - Extremely flammable.

### 2.2. Label elements



F+ - Extremely flammable

#### **R -phrase(s)**

R12 - Extremely flammable

#### **S -phrase(s)**

S16 Keep away from sources of ignition - No smoking

S23 Do not breathe spray

S51 Use only in well ventilated areas

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C

Do not pierce or burn, even after use

Do not spray on a naked flame or any incandescent material

S2 Keep out of reach of children

For Industrial and institutional use only

Please recycle - when empty

### 2.3. Other hazards

No additional hazards identified

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

## SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

### 3.2. Mixtures

Component	CAS-No	EC No.	Weight %	Classification	EU - GHS/CLP	Notes
PROPANE	74-98-6	-	5 - < 10	F+; R12	Press. Gas Flam. Gas 1 (H220)	
BUTANE	106-97-8	203-448-7	5 - < 10	F+; R12	Press. Gas Flam. Gas 1 (H220)	-

For any R phrases mentioned in this section, see the full text in section 16.

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

If symptoms persist, call a physician.

#### Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

#### Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Do not use solvents or thinners. If skin irritation persists, call a physician.

#### Ingestion

Do NOT induce vomiting. Rinse mouth with water. If swallowed, seek medical advice and show this container or label.

#### Inhalation

If exposed to high concentrations of the aerosol vapours, move to fresh air. If symptoms persist, call a physician.

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

#### Sensitization

No information available.

#### Eye contact

May cause irritation as itching and redness.

#### Skin contact

Unlikely to be irritant on brief or occasional exposure.

#### Inhalation

May cause headaches, dizziness, drowsiness and nausea.

### 4.3. Indication of any immediate medical attention and special treatment needed

#### Notes to physician

Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use: Dry powder, Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>), Foam, Water spray

#### Extinguishing media which must not be used for safety reasons

Water jet.

### 5.2. Special hazards arising from the substance or mixture

Pressurized container. Extremely flammable. Keep product and empty container away from heat and sources of ignition. Material can create slippery conditions. Thermal decomposition can lead to release of irritating gases and vapors.

### 5.3. Advice for firefighters

Firefighters should wear a self-contained breathing apparatus and full protective gear. Cool fire-exposed containers with water spray to prevent bursting.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

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Ventilate the area. Due to the nature of the aerosol packaging, a large spill is unlikely. For a small spill, wear appropriate protective clothing, ventilate the area, absorb with an inert material and transfer all material into a properly labeled container for disposal. Use care as spills may be slippery. Avoid contact with skin, eyes, and clothing. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so.

#### **6.2. Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Insoluble in water and hence will float on the surface.

#### **6.3. Methods and material for containment and cleaning up**

##### Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). If using a cloth to wipe up a small spillage, properly dispose of the used cloth to avoid a fire risk.

##### Methods for Cleaning up

For the non volatile residues: Clean preferably with a detergent, do not use solvents.

#### **6.4. Reference to other sections**

Refer to sections 7, 8 and 13

## **SECTION 7. HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation. Avoid breathing vapors or mists.

#### **7.2. Conditions for safe storage, including any incompatibilities**

For safety reasons in case of fire, cans should be stored separately in closed containments. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

#### **7.3. Specific end use(s)**

No information available

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

For substances

Component	European Union	The United Kingdom	France	Germany	Belgium
PROPANE				AGW: 1000ppm AGW: 1800mg/m <sup>3</sup> Peak: 4000ppm Peak: 7200mg/m <sup>3</sup> TWA: 1000ppm TWA: 1800mg/m <sup>3</sup>	1000 ppm TWA (gas, as Aliphatic hydrocarbons [alkanes C1-4])
BUTANE		STEL: 750 ppm STEL: 1810 mg/m <sup>3</sup> TWA: 600 ppm TWA: 1450 mg/m <sup>3</sup>	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>	AGW: 1000ppm AGW: 2400mg/m <sup>3</sup> Peak: 4000ppm Peak: 9600mg/m <sup>3</sup> TWA: 1000ppm TWA: 2400mg/m <sup>3</sup>	1000 ppm TWA (gas, as Aliphatic hydrocarbons [alkanes C1-4])

Component	Austria	Switzerland
PROPANE	STEL: 2000 ppm STEL: 3600 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	STEL: 4000 ppm STEL: 7200 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
BUTANE	STEL: 1600 ppm STEL: 3800 mg/m <sup>3</sup> TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>

#### Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 141 (organic vapours).

### 8.2. Exposure controls

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

#### Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested ∴ Solvent-resistant gloves (butyl-rubber). Nitrile rubber. Neoprene gloves. For break through times, refer to glove manufacturers recommendations.

#### Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

#### General Hygiene Considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Information below relates to typical values and does not constitute a specification

Appearance	White	Autoignition Temperature	No data available
Odor	Odourless	Boiling Point/Range	-10 °C
Physical State	Liquid	Melting Point/Range	No information available
pH	Not applicable	Flammability Limits in Air %	No information available
Flash Point	-50 °C	Evaporation Rate	No information available
Specific Gravity	0.79 g/cm <sup>3</sup>	Vapor Pressure	No information available
Viscosity	Viscous	Vapor Density	No information available
Solubility	Insoluble in water	Explosive properties	No information available
		Oxidizing Properties	No information available

### 9.2. Other information

No other information available

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Not considered as highly reactive. See further information below.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use

### 10.4. Conditions to avoid

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from open flames, hot surfaces, and sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

None under normal storage conditions and use.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

The product itself has not been tested

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
PROPANE			= 658 mg/L ( Rat ) 4 h
BUTANE			= 658 g/m <sup>3</sup> ( Rat ) 4 h

#### Sensitization

No information available.

#### Skin contact

Unlikely to be irritant on brief or occasional exposure.

#### Inhalation

May cause headaches, dizziness, drowsiness and nausea.

#### Eye contact

May cause irritation as itching and redness.

#### Carcinogenicity

There are no known carcinogenic substances in this product.

#### Mutagenic Effects

There are no known mutagenic substances in this product.

#### Reproductive Effects

There are no known substances in this product with effects on reproduction

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Product Information

The product itself has not been tested.

### 12.2. Persistence and degradability

Ecotoxicological properties are substance specific, i.e. bioaccumulation, persistence and degradability. The information is given, where available and appropriate, for substance(s) of the mixture.

### 12.3. Bioaccumulative potential

Bioaccumulation unlikely due to the high volatility of the product

Component information below

Not likely to bioaccumulate

Component	log Pow
PROPANE	2.3
BUTANE	2.89

### 12.4. Mobility in soil

The product is insoluble and floats on water. This preparation is volatile and will readily evaporate to the air if released into the environment.

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

### 12.6. Other adverse effects

No data available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

#### Contaminated Packaging

Do not expose to heat, flames, sparks or other sources of ignition. Do not pierce or burn, even after use. Empty containers should be taken for local recycling, recovery or waste disposal.

#### EWC waste disposal No

The following EWC/ AVV waste codes may be applicable: 16 05 04\* gases in pressure containers (including halons) containing dangerous substances 15 01 10\* packaging containing residues of or contaminated by dangerous substances

#### Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

## SECTION 14. TRANSPORT INFORMATION

### 14.1, 14.2, 14.3, 14.4.

#### IMDG/IMO

UN-No	UN1950
Proper Shipping Name	Aerosols, Flammable
Hazard Class	2.1
EmS No.	F-D, S-U

#### ADR / RID

UN-No	UN1950
Hazard Class	2.1
Classification Code	5F
Limited Quantity	1 L
Transport Cat. (Tunnel Restriction Code)	2 (D)

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IATA/ICAO

<b>UN-No</b>	UN1950
<b>Hazard Class</b>	2.1
<b>ERG Code</b>	10P

#### 14.5. Environmental hazards

The mixture is not environmentally hazardous for transport.

#### 14.6. Special precautions for user

No special precautions.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC's

#### Additional information

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

## SECTION 15. REGULATORY INFORMATION

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

The preparation is classified as dangerous in accordance with Directive 1999/45/EC. In addition, Directive 2009/2/EC with the 31st Adaptation of Directive 67/548/EEC (Hazardous substances) has been taken into account.

Environment Code - Classified Installations: Applicable in amounts (FRANCE ONLY):

Table of occupational illnesses (FRANCE ONLY)

Component	RG
PROPANE	RG 84
BUTANE	RG 84

#### WGK Classification

Weakly water-endangering (WGK 1), Classification according VwVwS

#### 15.2. Chemical safety assessment

No safety assessment has been created

## SECTION 16. OTHER INFORMATION

#### Text of R phrases mentioned in Section 3

R12 - Extremely flammable.

**Prepared By** JD

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**Revision Date** 02/10/2013

#### **Revision Summary**

Replaces SDS reference 102510V1 SDS sections updated 3

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#### Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals

EU: European Union

EC: European community

EEC: European Economic Community

UN: United Nations

CAS: Chemical Abstracts Service

PBT: Persistent Bioaccumulative Toxic

vPvB: very Persistent very Bioaccumulative

LC50: Lethal concentration, 50 percent

LD50 : Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

LogPow: LogP octanol/water

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)

WGK: Wassergefährdungsklasse (Water Hazard Class - Germany).

AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)

EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods

ERG: Emergency Response Guidebook

IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances

GHS: Globally Harmonised System of classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Chemical

w/w: weight for weight

DMSO: Dimethyl sulphoxide

OECD: Organization for Economic Cooperation and Development

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

#### Further Information

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS.

#### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

**End of Safety Data Sheet**