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2.1 : flammable gas.

Danger



SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Identification of the product : Aerosols dispensers.
 Trade name : CHAIN AND CABLE LUBRICANT JOHN DEERE

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

For professional use only. Intended use for agricultural machines.
 See product bulletin for detailed information.

1.3. Details of the supplier of the safety data sheet

Distributor : John Deere GmbH & Co. KG
 John Deere Straße 70
 68163 MANNHEIM Deutschland
 TEL : +49-621-829-01
 e-mail : ESOC@JohnDeere.com

1.4. Emergency telephone number

+49 (0) 3222 109 0482

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

: F+; R12
 R67
 Xi; R38
 N; R51/53

Text of R-Phrases : : SECTION 16

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

• Health hazards : Skin irritation - Category 2 - Warning
 Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
 Warning (CLP : STOT SE 3)

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SECTION 2 Hazards identification (continued)

- **Physical hazards** : Flammable aerosols - Category 1 - Danger (CLP : Flam. Aerosol 1)
Pressurised container: May burst if heated.
- **Environmental hazards** : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2)
- Text of H-Phrases :** : SECTION 16

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• **Hazard pictograms**



- **Hazard pictograms code** : SGH02 - SGH07 - SGH09
- **Signal words** : Danger
- **Hazard statements** : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
 - **General** : P102 - Keep out of reach of children.
 - **Prevention** : 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.
P260 - Do not breathe gas/spray.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
 - **Response** : P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P391 - Collect spillage.
 - **Storage** : P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122oF.
 - **Disposal considerations** : P501 - Dispose of contents/container in accordance with local regulations.
- **Contains** : Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics , Hydrocarbons, C6, isoalkanes, <5% n-hexane.

2.3. Other hazards

None under normal conditions.

SECTION 3 Identification of the substance/mixture and of the company/undertaking

Substance name	Contents	CAS No	EC No	Annex No	REACH	Classification
Butane	: 20 - 50 %	106-97-8	203-448-7	----	----	F+; R12 ----- Flam. Gas 1 (H220)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	: 15 - 20 %	----	927-510-4	----	01-2119475515-33-XXXX	F; R11 Xn; R65 R67 Xi; R38 N; R51-53 ----- Flam. Liq. 2 (H225) Asp. Tox 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)

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SECTION 3 Identification of the substance/mixture and of the company/undertaking (continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH	Classification
Propane	: 5 - 15 %	74-98-6	200-827-9	----	----	F+; R12 ----- Flam. Gas 1 (H220)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane	: 5 - 15 %	----	931-254-9	----	----	F; R11 Xn; R65 R67 Xi; R38 N; R51-53 ----- Flam. Liq. 2 (H225) Asp. Tox 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid measures

- Inhalation : Assure fresh air breathing.
- Skin contact : Wash skin thoroughly with mild soap and water.
- Eye contact : Rinse immediately with plenty of water.
- Ingestion : Seek medical attention if ill effect develops.

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

- Inhalation : Vapours may cause drowsiness and dizziness.
- Skin contact : Irritating to skin.
- Eye contact : Direct contact with the eyes is likely irritating.
- Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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 : Carbon dioxide. Powder. Water spray. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep public away from danger area. Equip cleanup crew with proper protection.

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SECTION 6. Accidental release measures (continued)

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods

- on soil : Clean up any spills as soon as possible, using an absorbent material to collect it.
- on water : Take up large spills with pump or vacuum.

6.4. Reference to other sections

No data available.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

- General** : When using, do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Take off immediately all contaminated clothing.
- Handling** : No smoking. Do not breathe gas, fumes, vapour or spray. Wear suitable protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Storage** : Store in dry, cool, well-ventilated area. Keep in original containers.
- Storage life** : 3 years.

7.3. Specific end use(s)

No data available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

- Occupational Exposure Limits** : Butane : TLV© -TWA [ppm] : (MAK) 1000
Butane : TLV© -TWA [ppm] : (ACGIH) 1000
Butane : VME [ppm] : (France) 800
Butane : VME [mg/m3] : (France) 1900
Butane : VME [mg/m3] : (allemagne) 4(II) DFG 2400
Butane : VME [mL/m3] : (allemagne) 4(II) DFG 1000
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : VME [mg/m3] : 1600
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : VME [ppm] : 395

8.2. Exposure controls

Personal protection

- Eye protection : Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product.
- Skin protection : Wear suitable protective clothing.
- Hand protection : Wear suitable gloves resistant to chemical penetration. (EN374)
- Respiratory protection : Where excessive vapour may result, wear approved mask.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Characteristic.
Odour	: Characteristic.
• Odour threshold	: No data available.
• pH	: Not applicable.
• Melting point / Freezing point	: No data available.
• Initial boiling point - boiling range [°C]	: 60 - 300
Final boiling point [°C]	: No data available.
• Flash point [°C]	: < -20
• Evaporation rate	: 8
• Flammability	: No data available.
• Explosion limits (lower - upper)	: 1.1 - 9.5
• Vapour pressure	: 853000
• Vapour density	: No data available.
• Relative density	: 0.74 - 0.76
• Solubility	: Material insoluble in water.
• Partition coefficient : n-octanol / water	: No data available.
• Auto-ignition temperature	: 365
• Thermal decomposition	: No data available.
• Viscosity	: 1
• Explosive Properties	: No data available.
• Oxidising properties	: No data available.

9.2. Other information

Other data : COV/ VOC : 62.6% - 423.1g/l

SECTION 10. Stability and reactivity

10.1. Reactivity

Stable.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Conditions to avoid : Open flame. Sparks. Heat.

10.5. Incompatible materials

Materials to avoid : Strong oxidizers.

10.6. Hazardous decomposition products

Hazardous decomposition products : Hydrocarbon. Carbon monoxide. Carbon dioxide.

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SECTION 11. Toxicological information

11.1. Information on toxicological effects

Refer to Summary of hazards
SECTION 1

Rat oral LD50 [mg/kg] : 4062

SECTION 12. Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

WGK (Water-endangerment class) : 1

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

SECTION 14. Transport information

14.1. UN Number

UN No. : 1950

14.2. Proper shipping name

UN1950 AEROSOLS, flammable (Butane, Propane), 2.1, 5F, (D)

14.3. Transport Hazard Classification

19 - Labelling ADR



: 2.1 : flammable gas.

ADR/RID

: Class : 2
Group : F

H.I. nr

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SECTION 14. Transport information (continued)

- Proper shipping name : UN1950 AEROSOLS, flammable (Butane, Propane), 2.1, 5F, (D)

Land transport

- ADR Class : 2

- ADR Packing group : F

Emergency action in case of accident : Keep public away from danger area.
NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

Sea transport

- IMO-IMDG code : Class 2.1

IMO Packing group : -

- IMDG-Marine pollution : Yes

- EMS-Nr : F-D S-U

Air transport

- ICAO/IATA : Packaging instructions cargo : 203
Packaging instructions passenger: 203

- Proper shipping name : AEROSOLS, flammable

- IATA - Class or division : 2.1

14.4. Packing group

F

14.5. Environmental hazards

In case of spillage and/or leakage : Clean up even minor leaks or spills if possible without unnecessary risk.

14.6. Special precautions for user

Personal precautions : The driver shall not attempt to deal with any fire of the load.

Emergency action in case of accident : Stop the engine. No naked lights. No smoking. Mark roads and warns other road users. Keep public away from danger area. NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

14.7. Bulk transport - annex II Marpol 73/78 - IBC

No data available.

SECTION 15. Regulatory information

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

Ensure all national/local regulations are observed.

: Table RG 84: Diseases caused by organic solvents liquid for professional use. (FRANCE)

Other : COV / VOC : 62.6% - 423.1g/l
WGK (Water-endangerment class) : 1

15.2. Chemical Safety Assessment

No data available.

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SECTION 16. Other information

Text of H-Phrases : : H220 - Extremely flammable gas.
H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Text of R-Phrases : : R11 : Highly flammable.
R12 : Extremely flammable.
R38 : Irritating to skin.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 : Harmful : may cause lung damage if swallowed.
R67 : Vapours may cause drowsiness and dizziness.

Recommended uses and restrictions : See product bulletin for detailed information.

Further information : Revision - See : *
Label :
Safety data sheet available for professional user on request.

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The contents and format of this SDS are in accordance with Regulation (EC) N° 453/2010 of the European Parliament and of the Council.

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