

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date: 19.10.2020

**Version number 5

Revision: 19.10.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Trade name: **CES-Pflegespray**

Application / Use: Forming lubricant

Article number: 9801S

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

Application of the substance / the preparation:

Special lubricant

Metal forming lubricant

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

C.Ed. Schulte GmbH

Friedrichstr. 243

DE - 42551 Velbert

Tel: +49 (0) 2051 204-0

Fax: +49 (0) 2051 204-229

Exclusively produced by:

HERMANN BANTLEON GmbH

Blaubeurer Strasse 32

DE - 89077 Ulm

Further information obtainable from:

Department: Product safety

Contact specialist: info@ces.eu

1.4 Emergency telephone number:

In case of emergency ONLY:

During working hours (CET):

+49 (0) 731 / 39 90 260 or +49 (0) 731 / 39 90 250

Emergency response (24 hours) CHEMTREC:

1-800-424-9300 / +1-703-741-5970

+(44)-870-8200418 (United Kingdom)

+(44)-203-8073798 (United Kingdom)

+(31)-858880596 (Netherlands)

+(61)-290372994 (Australia)

0-800-983-611 (South Africa)

+1 703-527-3887 (USA & Canada)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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Hazard pictograms


GHS02

Signal word Danger

Hazard-determining components of labelling:

Hydrocarbons, C11-C12, < 2% aromatics

Hydrocarbons, C11-C14, isoalkanes

Hydrocarbons, C11-C13, isoalkanes

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

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.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards
Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients
3.2 Mixture

Description: Mixture

Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7	Butane Flam. Gas 1, H220; Press. Gas (Comp.), H280	10-25%
EC number: 918-167-1 Reg.nr.: 01-2119472146-39	Hydrocarbons, C11-C12, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	≥10-<25%
CAS: 74-98-6 EINECS: 200-827-9	Propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	≤10%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2, H319	≤2.5%
EC number: 939-717-7 Reg.nr.: 01-2119980985-16	Calcium bis(dinonylnaphthalenesulphonate) Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2.5%

Additional information:

The wording of the hazard symbols and H-phrases is specified in section 16 if dangerous ingredients are mentioned.

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Components with threshold limit values are mentioned at section 8.

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SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take affected persons out into the fresh air.

Position and transport stably in side position.

After inhalation: Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed:** If swallowed or in case of vomiting, danger of entering the lungs.**Information for doctor:** Treat symptomatically.**Hazards**

Danger of pulmonary oedema.

Danger of pneumonia.

4.3 Indication of any immediate medical attention and special treatment needed:

Later observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**CO₂, sand, extinguishing powder.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Do not use water with full jet.**5.2 Special hazards arising from the substance or mixture:**

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Sulphur oxide (SO_x)**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

6.2 Environmental precautions: Do not allow to enter sewers, surface or ground water.

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6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Ensure that suitable extractors are available on processing machines.

Avoid direct contact with the product.

Handling: When handling product in drums use safety footwear and suitable tools. At work please do not eat, drink or smoke.**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Fire class EN 2: B

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

Store away from water.

Further information about storage conditions:

Protect from humidity and water.

Recommended storage temperature 0 to 30 °C.

Shelf life from date of dispatch: Maximum 3 years**Storage class:** 2 B (acc. TRGS 510 Germany): Aerosols**7.3 Specific end use(s):** For more information see technical information.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:**

Use only in well-ventilated rooms. If necessary please install an isolating or suction mechanism.

See also section 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****CAS: 106-97-8 Butane (10-25%)**

WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol (≤2.5%)	
WEL (Great Britain)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
IOELV (EU)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm

DNELs

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol		
Dermal	DNEL worker (long term exposure)	83 mg/kg bw/day (human)
Inhalative	DNEL worker (long term exposure)	67.5 mg/m ³ (human)
Calcium bis(dinonylnaphthalenesulphonate)		
Dermal	DNEL worker (long term exposure)	10 mg/kg bw/day (human)
Inhalative	DNEL worker (long term exposure)	2.23 mg/m ³ (human)

PNECs

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol	
PNEC	1.1 mg/l (fresh water)
PNEC	0.32 mg/kg (soil)
	4.4 mg/kg (freshwater sediment)
Calcium bis(dinonylnaphthalenesulphonate)	
PNEC	0.000027 mg/l (sea water)
	0.00027 mg/l (fresh water)
PNEC	0.936 mg/kg (soil)
	0.469 mg/kg (sea water sediment)
	0.00469 mg/kg (freshwater sediment)

Additional Occupational Exposure Limit Values for possible hazards during processing: TLV-TWA oil mist 5 mg/m³ (USA, ACGIH)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid close or long term contact with the skin.

Respiratory protection:

No respiratory protection is ordinarily required under normal conditions of use. Select a filter suitable for combined particulate/ gases and organic vapours (gas filter type AX acc. EN 14387), if exposure limit is exceeded or when aerosol or mist is formed.

Protection of hands:

Safety gloves of nitrile rubber or viton.

Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Value for the permeation: Level = 6 (480 min)

Eye protection: Goggles recommended during refilling.**Body protection:** Protective work clothing.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Aerosol
Colour:	Light brown
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not determined.**Change in condition**

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not applicable, as aerosol.
Drip point:	Not determined.

Flash point: Not applicable, as aerosol.**Flammability (solid, gas):** Not applicable.**Ignition temperature:** Not determined.**Decomposition temperature:** Not determined.**Auto-ignition temperature:** Product is not selfigniting.**Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	Not determined.
Density at 20 °C:	~ 0.74 g/cm ³ (DIN 51 757)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.

Solubility in / Miscibility with**water:** Not miscible or difficult to mix.**Partition coefficient: n-octanol/water:** Not determined.**Viscosity:****Kinematic:** Not applicable.**9.2 Other information** No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity See 10.2 to 10.6

10.2 Chemical stability: Stable at normal conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.

10.4 Conditions to avoid Avoid contact with heat, sparks, flames and all other sources of ignition.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects These statements are based on data for components of the material or for similar materials.

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Hydrocarbons, C11-C12, < 2% aromatics

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/8h	>5,000 mg/m ³ (rat) (OECD 403)

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	2,764 mg/kg (rabbit)

Calcium bis(dinonylnaphthalenesulphonate)

Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

by inhalation: No irritant effect expected.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Other information (about experimental toxicology):

After swallowing: Swallow and particularly subsequent vomiting can lead to lung damage - pneumonia - pulmonary edema.

Subacute to chronic toxicity:

Prolonged and/or repeated contact may cause defatting of the skin which can lead to dermatitis and may make the skin more susceptible to irritation and penetration by other materials.

Additional toxicological information:

The product shows the following dangers according to the calculation method of Regulation (EC) No 1272/2008 as issued in the latest version:

Asp. Tox. 1

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

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Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****Hydrocarbons, C11-C12, < 2% aromatics**

NOELr 1,000 mg/l (Pseudokirchneriella subcapitata) (72 h)

NOELR/21d >1 mg/l (Daphnia magna)

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol

EC50/24h 2,850 mg/l (Daphnia magna)

LC50/96h 1,300 mg/l (fish)

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** The product is not soluble in water. If it enters soil, it will adsorb to soil particles and will not be mobile.**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects:** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.**European waste catalogue**

15 01 10* packaging containing residues of or contaminated by hazardous substances

15 01 04 metallic packaging

HP3 Flammable

Uncleaned packaging: Empty packing completely. Handover to authorized disposal company.**Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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SECTION 14: Transport information

14.1 UN-Number	
ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR, IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
	
Class	2 5F Gases.
Label	2.1

IMDG, IATA	
	
Class	2.1
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
	Not applicable.
14.6 Special precautions for user	
Hazard identification number (Kemler code):	Warning: Gases.
EMS Number:	-
Stowage Code	F-D,S-U
Segregation Code	SW1 Protected from sources of heat. SW2 Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
IBC Code	Not applicable.
Transport/Additional information:	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D

IMDG	
Limited quantities (LQ)	1L

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Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Seveso category P3a FLAMMABLE AEROSOLS****Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t****Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t****REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3****DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

National regulations:**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Waterhazard class: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water**Ordinance on the Incentive Tax on Volatile Organic Compounds (Switzerland)****OVOC (CH) ~70.00 %****15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H413 May cause long lasting harmful effects to aquatic life.

Department issuing SDS: Department: Product safety**Contact:** info@ces.eu**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

* **Data compared to the previous version altered.**

****Information about the version number:** Replaces all previous versions.