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SDS version 2.0

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

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**1.1. Product Identifier**

Trade Name: SUVO Brun XL  
Product- no.: -  
UFI: DEMA-0V2A-W20Y-JT05

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

Corrosion inhibitor. Rust protectant for automobiles.

**Uses advised against:**

This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

**1.3. Details of the supplier of the safety data sheet****Company and address:**

LHG Group A/S  
Nybodalen 1-3  
DK-7500 Holstebro  
Tlf.: 9741-2077

**Contact person and E-mail:**

Michael Frost, michael@lhg-group.dk

**The Safety data sheet is completed and validated by:**

Mediator ApS, Centervej 2, DK-6000 Kolding. Consultant: DH

**1.4. Emergency telephone number**

Use your national or local emergency number - For "First aid measures" see section 4.

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**SECTION 2: Hazards identification**

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**2.1. Classification of the substance or mixture**

CLP (1272/2008):  
Flam. Liq. 3;H226  
Skin Sens. 1B;H317  
STOT SE 3;H336

See full text of H-phrases in section 16.

**2.2. Label elements****Signal word:**

Warning

Flammable liquid and vapour. (H226)  
May cause an allergic skin reaction. (H317)  
May cause drowsiness or dizziness. (H336)  
Repeated exposure may cause skin dryness or cracking. (EUH 066)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)  
Wear protective gloves/eye protection. (P280)  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. (P304 + P340 + P312)  
If skin irritation or rash occurs: Get medical advice/attention. (P333 + P313)  
Dispose of contents/container in accordance with local regulation. (P501)

**2.3. Other hazards**

The product contains organic solvents. Repeated exposure to organic solvents may cause damage to the central nervous system and internal organs e.g. liver and kidney.

**Additional labelling:**

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**Additional warnings**

The product does not meet the criteria for PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

**3.1/3.2. Substances/Mixtures**

Substance	EU-Index no. / REACH-Reg. no.	CAS-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
Naphtha (petroleum), hydrotreated heavy (benzene, <0,1%)	- / -	64742-48-9	265-150-3	Flam. Liq. 3;H226, Asp. Tox. 1;H304, STOT SE 3;H336, EUH066	40 - 45	2, 3
Distillates (petroleum), solvent-refined heavy paraffinic (<3%	649-454-00-7 / -	64741-88-4	265-090-8	-	25 - 30	1
Calcium sulfonate	- / -	61789-86-4	263-093-9	Skin Sens. 1B;H317	5 - 10	-
2-Butoxyethanol	603-014-00-0 / 01-2119475108-36-xxxx	111-76-2	203-905-0	Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 3;H331  ATE (Inhalation) = 3 mg/L (Vapours) ATE (Oral) = 1200 mg/kg bw	1 - 3	2

- 1) The substance is an organic solvent.  
2) Asp. Tox. 1;H304 is not applicable due to the high viscosity of the product.

See full text of H-phrases in section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation:**

Seek fresh air.  
Keep victim under observation.  
Seek medical advice in case of discomfort.

**Ingestion:**

Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.  
Do not induce vomiting.  
If vomiting occurs, keep head low so that stomach contents do not enter lungs.  
Seek medical advice immediately.

**Skin contact:**

Remove contaminated clothing.  
Wash skin with soap and water.  
Seek medical advice in case of discomfort.

**Eye contact:**

Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

**Burns:**

Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

**Additional information:**

When obtaining medical advice, show the safety data sheet or label.

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

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

May cause drowsiness or dizziness.

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

Show this safety data sheet to the doctor in attendance.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Extinguish with powder, foam, carbon dioxide or water mist.  
Do not use water stream, as it may spread the fire.

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

Flammable liquid and vapour.  
Avoid inhalation of vapour and fumes – seek fresh air.  
Product decomposes in fire conditions and toxic gases such as COx may be released.  
Fire will produce dense black smoke.  
Exposure to decomposition products may cause a health hazard.

**5.3. Advice for firefighters**

Send contaminated extinguishing water for destruction.  
If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

See section 8 for type of protective equipment.  
Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.  
Avoid breathing and contact with skin and eyes.

**6.2. Environmental precautions**

Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.  
Prevent spillage from entering drains and/or surface water.

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

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers.  
Rinse with water.

**6.4. Reference to other sections**

See section 8 for type of protective equipment.  
See section 13 for instructions on disposal.

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

See section 8 for information about precautions for use and personal protective equipment.  
Use the product under well-ventilated conditions.  
Running water and eye wash equipment should be available.  
Smoking and naked flames prohibited.

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

The product must be stored safely and away from food, animal feeding stuffs, medicines, etc.  
Keep in tightly closed original packaging.  
Store in a dry, cool, well-ventilated area.  
Store fireproof. Storage for flammable liquids must follow local regulations for flammable stock.

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

See application section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Indicative occupational exposure limit value (IOELV)

Substance	exposure limit mg/m <sup>3</sup> / ppm	exposure limit mg/m <sup>3</sup> / ppm	Note
2-Butoxyethanol	98 / 20	246 / 50	-
<b>DNEL/PNEC-values:</b>			
<b>DNEL Naphtha (petroleum), hydrotreated heavy (benzene, &lt;0,1%)</b>			
	<b>Workers</b>		<b>Consumers</b>
Inhalation - Acute Systemic	1286,4 mg/m <sup>3</sup>		1152 mg/m <sup>3</sup>
Inhalation - Chronic Local	837,5 mg/m <sup>3</sup>		178,57 mg/m <sup>3</sup>
Inhalation - Acute Local	1066,67 mg/m <sup>3</sup>		640 mg/m <sup>3</sup>

## DNEL Distillates (petroleum), solvent-refined heavy paraffinic (<3% DMSO)

	Workers	Consumers
Inhalation - Chronic Systemic	2,73 mg/m <sup>3</sup>	-
Inhalation - Chronic Local	5,58 mg/m <sup>3</sup>	-
Dermal - Chronic Systemic	0,97 mg/kg bw/day	-
Oral - Chronic Systemic	-	0,74 mg/kg bw/day

## DNEL Calcium sulfonate

	Workers	Consumers
Inhalation - Chronic Systemic	11,75mg/m <sup>3</sup>	2,9 mg/m <sup>3</sup>
Dermal - Chronic Systemic	3,33 mg/kg bw/day	1,667 mg/kg bw/day
Dermal - Chronic Local	1,03 mg/cm <sup>2</sup>	0,513 mg/cm <sup>2</sup>
Oral - Chronic Systemic	-	0,833 mg/kg bw/day

## DNEL 2-Butoxyethanol

	Workers	Consumers
Inhalation - Chronic Systemic	98 mg/m <sup>3</sup>	59 mg/m <sup>3</sup>
Inhalation - Acute Systemic	1091 mg/m <sup>3</sup>	426 mg/m <sup>3</sup>
Inhalation - Acute Local	246 mg/m <sup>3</sup>	147 mg/m <sup>3</sup>
Oral - Chronic Systemic	-	6,3 mg/kg bw/day
Oral - Acute Systemic	-	26,7 mg/kg bw/day

## PNEC Calcium sulfonate

Fresh water	1 mg/L
Intermittent releases (Fresh water)	10 mg/L
Marine water	1 mg/L

## PNEC 2-Butoxyethanol

Fresh water	8,8 mg/L
Intermittent releases (Fresh water)	26,4 mg/L
Marine water	0,88 mg/L
Soil	2,33 mg/kg soil dw

## 8.2. Exposure controls

There are no exposure scenarios for this product.

### Appropriate engineering controls:

Wear the personal protective equipment specified below.  
Wash hands before breaks, before using restroom facilities, and at the end of work.

### Personal protective equipment:



### Respiratory protection:

In case of insufficient ventilation, wear respiratory protective equipment with filter A.  
Respiratory protective equipment shall comply with one of the following standards: EN 136/140/145.

### Hand protection:

Wear protective gloves made of nitrile rubber (> 0,11 mm). Protective gloves conforming to EN 374.  
Penetration time: > 8 h.

### Eye/face protection:

Wear safety goggles if there is a risk of eye splash.  
Eye protection conforming to EN 166.

### Skin protection:

Special work clothing should be used.

### Environmental exposure controls:

Make sure that when using the product damming material is available in immediate vicinity. If possible use spillage tray during work.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Light brown
Odour:	Characteristic
Melting point/ Freezing Point (°C):	-
Boiling point or initial boiling point and boiling range (°C):	150
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	40
Auto-ignition temperature (°C):	> 200
Decomposition temperature (°C):	-
pH:	-
Kinematic viscosity (mm <sup>2</sup> /s):	>20,5 (40 °C)
Solubility:	Not soluble in water
Partition coefficient n-octanol/water (log value)	-
Vapour pressure:	0,010 Pa
Density and/or relative density:	0,860 ± 0,02
Relative vapour density:	-
Particle characteristics:	-

**9.2. Other information**

VOC (Volatile organic compounds):	412,8 g/l.
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data.

**10.2. Chemical stability**

The product is stable when used in accordance with the supplier's directions.

Combustible at temperatures above the flash point.

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

Avoid heating and contact with ignition sources.

**10.5. Incompatible materials**

Avoid contact with strong oxidising agents.

Avoid contact with strong reducing agents.

Avoid contact with strong acids.

**10.6. Hazardous decomposition products**

Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as CO<sub>x</sub> may be released.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity:**

Based on the existing data, the classification is not met.

Substance	exposure	Species	Test	Result
Calcium sulfonate	Oral	Rat	LD50	>5000 mg/kg bw
Calcium sulfonate	Inhalation	Rat	LC50/ 4 Hours	>1,9 mg/L air
Calcium sulfonate	Dermal	Rabbit	LD50	> 5000 mg/kg bw
2-Butoxyethanol	Oral	Rat	LD50	1200 mg/kg bw

**Skin corrosion/irritation:**

May irritate the skin – may cause reddening.

Can be absorbed through the skin causing symptoms such as dizziness and headache.

Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/irritation:**

May cause eye irritation.

**Respiratory or skin sensitisation:**

May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration – often slowly developing.

**Germ cell mutagenicity:**

Based on the existing data, the classification is not met.

**Carcinogenicity:**

Based on the existing data, the classification is not met.

**Reproductive toxicity:**

Based on the existing data, the classification is not met.

**STOT-single exposure:**

The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

**STOT-repeated exposure:**

Prolonged or repeated exposure by skin contact or inhalation of vapours may cause damage to the central nervous system.

**Aspiration hazard:**

Based on the existing data, the classification is not met.

**11.2. Information on other hazards**

Test data are not available.

**SECTION 12: Ecological information****12.1. Toxicity**

Substance	Test duration	Species	Test	Result
Calcium sulfonate	48 Hours	Daphnia	LC50	>1000 mg/L
Calcium sulfonate	72 Hours	Algae	EC50	>1000 mg/L
2-Butoxyethanol	96 Hours	Fish	LC50	1474 mg/L
2-Butoxyethanol	48 Hours	Daphnia	EC50	1550 mg/L
2-Butoxyethanol	72 Hours	Algae	EC50	623 mg/L

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
Calcium sulfonate	No	OECD Guideline 301 D	28 Days 8%
2-Butoxyethanol	Yes	OECD Guideline 301 B	28 Days 90,4%

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow
Calcium sulfonate	Yes	> 4,46
2-Butoxyethanol	No	0,81

**12.4. Mobility in soil**

Test data are not available.

**12.5. Results of PBT and vPvB assessment**

The product does not meet the criteria for PBT or vPvB.

**12.6. Endocrine disrupting properties**

Test data are not available.

**12.7. Other adverse effects**

None.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

The product is covered by the regulations on dangerous waste.

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC-Code	Description
12 01 07	Mineral-based machining oils free of halogens (except emulsions and solutions)

**Specific labelling:**

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**Contaminated packaging:**

Empty packaging and residues must be disposed of through the municipal waste collection service for hazardous waste.

**SECTION 14: Transport information**

The product is covered by the rules for transport of dangerous goods.

**14.1 -14.4.****ADR**

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1139	COATING SOLUTION	3	III

**IMDG/IATA**

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1139	COATING SOLUTION	3	III

**14.5. Environmental hazards**

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**14.6. Special precautions for user**

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**14.7. Maritime transport in bulk according to IMO instruments**

Not relevant.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Sources:**

Commission Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, EU 2017/164 and EU 2019/1831 (the first, second, third, fourth and fifth IOELV Directives).

**Additional labelling:****VOC:**

Maximum content of VOC: 320 g/l., VOC limit values (B/e (Sb)) 840 g/l.

**Restrictions for application:**

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. Young people above 15 years are exempted this rule, if the product is a part of an education/training. Special care should be applied for pregnant and lactating women.

**Demands for specific education:**

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**15.2. Chemical safety assessment**

None.

**SECTION 16: Other information**

According to EU regulation 1907/2006 (REACH)

**Other information:****Sources:**

EC regulation 1907/2006 (REACH), with amendments.  
 EC Regulation 1272/2008 (CLP), with amendments.  
 Directive 2008/98/EC  
 ECHA - The European Chemicals Agency

**Full text of H-phrases as mentioned in section 2+3:**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
EUH 066	Repeated exposure may cause skin dryness or cracking.

**Classification according to Regulation (EC) Nr. 1272/2008:**

Flam. Liq. 3;H226	On basis of test data
Skin Sens. 1B;H317	Calculation method
STOT SE 3;H336	Calculation method

**Abbreviations and acronyms used in the safety data sheet:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS-Number.: Chemical Abstracts Service number.

EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).

DNEL: Derived No Effect Level.

PNEC(s): Predicted No Effect Concentration(s).

STOT: Specific Target Organ Toxicity.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50: Lethal Concentration to 50 % of a test population.

EC50: The effective concentration of substance that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.

NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

**Other:**

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

**Minor changes have been made in following sections:**

New supplier information.

**This material safety data sheet replaces version:**

1.9