SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
Junckers SylvaCleaner
Product no.
H08
REACH registration number
Not applicable
Unique formula identifier (UFI)
-

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

Relevant identified uses of the substance or mixture
Cleaning of floors.
Uses advised against
-
The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address
Junckers Industrier A/S
Vaerftsvej 4
4600 Koege
Denmark
Tel.: +45 7080 3000
Contact person
Kirsten Andersen
E-mail
productsafety@junckers.dk
SDS date
2019-01-04
SDS Version
8.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

Signal word
Warning

Hazard statement(s)

Causes serious eye irritation. (H319)

Precautionary statements

General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
Prevention	Wash hands/exposed skin thoroughly after handling. (P264). Wear eye protection. (P280).
Response	If eye irritation persists: Get medical advice/attention. (P337+P313). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
Storage	-
Disposal	-

Identity of the substances primarily responsible for the major health hazards

Not applicable

2.3. Other hazards

Not applicable

Additional labelling

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. (EUH208).

Additional warnings

Not applicable

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Alcohols, C12-14, ethoxylated
IDENTIFICATION NOS.:	CAS-no: (68439-50-9) EC-no: 932-106-6
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3 H302, H318, H412

NAME:	2-(2-butoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 112-34-5 EC-no: 203-961-6 REACH-no: 01-2119475104-44-xxxx Index-no: 603-096-00-8
CONTENT:	1 - <5%
CLP CLASSIFICATION:	Eye Irrit. 2 H319
NOTE:	O L

NAME:	1,2-benzisothiazol-3(2H)-one
IDENTIFICATION NOS.:	CAS-no: 2634-33-5 EC-no: 220-120-9 Index-no: 613-088-00-6
CONTENT:	<0.05%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 H302, H315, H317, H318, H400

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.
O = Organic solvent L = European occupational exposure limit.

Other information

ATEmix(inhale, vapour) > 20
ATEmix(inhale, dust/mist) > 5
ATEmix(inhale, gas) > 20000
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 8,16 - 12,24
N chronic (CAT 4) Sum = Sum(Ci/(M(chronic)i*25)*0.1*10^CAT4) = 0,3168 - 0,4752

Detergent:
> 30%: AQUA
5 - 15%: NON-IONIC SURFACTANTS
PRESERVATIVE, BENZISOTHIAZOLINONE

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him/her.

Skin contact

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

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

This product contains substances that may trigger an allergic reaction to predisposed persons.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on “Disposal considerations” in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

Room temperature 18 to 23°C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

2-(2-butoxyethoxy)ethanol
Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67.5 mg/m³
Short-term exposure limit (15-minute reference period): 15 ppm | 101.2 mg/m³

DNEL / PNEC

DNEL (2-(2-butoxyethoxy)ethanol): 67.5 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67.5 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 101.2 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 83 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 40.5 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 40.5 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 60.7 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 50 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 5 mg/kg bw/day
Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population
PNEC (2-(2-butoxyethoxy)ethanol): 1.1 mg/l
Exposure: Freshwater
Duration of Exposure: Continuous

PNEC (2-(2-butoxyethoxy)ethanol): 0,11 mg/l
Exposure: Marine water
Duration of Exposure: Continuous

PNEC (2-(2-butoxyethoxy)ethanol): 200 mg/l
Exposure: Sewage Treatment Plant

PNEC (2-(2-butoxyethoxy)ethanol): 4.4 mg/kg
Exposure: Freshwater sediment

PNEC (2-(2-butoxyethoxy)ethanol): 0.44 mg/kg
Exposure: Marine water sediment

PNEC (2-(2-butoxyethoxy)ethanol): 0.32 mg/kg
Exposure: Soil

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

No specific requirements.

Skin protection

Dedicated work clothing should be worn.

Hand protection

Nitrile rubber
Breakthrough time: > 60 minutes (Class 3)

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid

Colour	Colourless
Odour	Mild
Odour threshold (ppm)	No data available.
pH	≈7,5
Viscosity (40°C)	No data available.
Density (g/cm³)	1,05
Phase changes	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
Data on fire and explosion hazards	
Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
Solubility	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
9.2. Other information	
Solubility in fat (g/L)	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
The product is stable under the conditions, noted in the section “Handling and storage”.

10.3. Possibility of hazardous reactions
Nothing special

10.4. Conditions to avoid
Nothing special

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Substance: 1,2-benzisothiazol-3(2H)-one
Species: Rat
Test: LD50
Route of exposure: Dermal
Result: > 2000 mg/kg

Substance: 1,2-benzisothiazol-3(2H)-one
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 597 mg/kg

Substance: 1,2-benzisothiazol-3(2H)-one
Species: Mouse
Test: LD50
Route of exposure: Oral
Result: 1150 mg/kg bw

Substance: 2-(2-butoxyethoxy)ethanol
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 2700 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 3384 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol
Species: Mouse
Test: LD50
Route of exposure: Oral
Result: 2499 mg/kg

Substance: Alcohols, C12-14, ethoxylated
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: > 2000 mg/kg

Substance: Alcohols, C12-14, ethoxylated
Species: Rat
Test: LD50
Route of exposure: Oral
Result: >300 - 2000 mg/kg

Skin corrosion/irritation
No data available.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
This product contains substances that may trigger an allergic reaction to predisposed persons.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

STOT-single exposure
No data available.

STOT-repeated exposure
No data available.

Aspiration hazard
No data available.

Long term effects
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity
Substance: 1,2-benzisothiazol-3(2H)-one
Species: Fish
Test: LC50
Duration: 96 h
Result: 0,74 mg/l

Substance: 1,2-benzisothiazol-3(2H)-one
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 2,44 mg/l

Substance: 1,2-benzisothiazol-3(2H)-one
Species: Algae
Test: EC50
Duration: 72 h
Result: 0,11 mg/l

Substance: 2-(2-butoxyethoxy)ethanol
Species: Fish
Test: LC50
Duration: 96 h
Result: 1300 mg/l

Substance: 2-(2-butoxyethoxy)ethanol
Species: Daphnia
Test: EC50
Duration: 24 h
Result: 2850 mg/l

Substance: 2-(2-butoxyethoxy)ethanol
Species: Algae
Test: EC50
Duration: 96 h
Result: 100 mg/l

Substance: 2-(2-butoxyethoxy)ethanol
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 100 mg/l

Substance: Alcohols, C12-14, ethoxylated
Species: Algae
Test: ErC50
Duration: 72 h
Result: 1 - 10 mg/l

Substance: Alcohols, C12-14, ethoxylated
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 1 - 10 mg/l

Substance: Alcohols, C12-14, ethoxylated
Species: Fish
Test: LC50
Duration: 96 h
Result: 1 - 10 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
1,2-benzisothiazol-3(2H)-one	Yes	No data available	No data available
2-(2-butoxyethoxy)ethanol	Yes	Modified OECD Screening Test	90-100 %
Alcohols, C12-14, ethoxylated	Yes	CO2 Evolution Test	>60%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
1,2-benzisothiazol-3(2H)-one	No	1,3	No data available
2-(2-butoxyethoxy)ethanol	No	0,56	No data available

12.4. Mobility in soil

1,2-benzisothiazol-3(2H)-one: Log Koc= 1,10787, Calculated from LogPow (High mobility potential.).
2-(2-butoxyethoxy)ethanol: Log Koc= 0,521864, Calculated from LogPow (High mobility potential.).

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which due to poor biodegradability, may cause adverse long-term

effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

Waste

EWC code

20 01 29 detergents containing dangerous substances

Specific labelling

Not applicable

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

IATA/ICAO

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(*) Packing group
(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Demands for specific education

-

Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Seveso

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Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H400 - Very toxic to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

-

Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:
The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
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.
A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

shcw/chymeia

Date of last essential change
(First cipher in SDS version)

2017-09-25(7.0)

Date of last minor change
(Last cipher in SDS version)

2017-09-25