

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Junckers Refresher

Product no.

802-20

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Maintenance of wood 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 70 80 30 00

Contact person**E-mail**

productsafety@junckers.dk

SDS date

2021-04-08

SDS Version

1.0

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

Not classified according to Regulation (EC) No. 1272/2008 (CLP)

2.2. Label elements

Hazard pictogram(s)

Not applicable

Signal word

-

Hazard statement(s)

Not applicable

Precautionary statements

General -

Prevention -

Response -

Storage -

Disposal -

According to EC-Regulation 2015/830

Identity of the substances primarily responsible for the major health hazards

Not applicable

Additional labelling

Contains 1,2-Benzisothiazol-3(2H)-one (BIT), 5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1)). May produce an allergic reaction. (EUH208).

Safety data sheet available on request. (EUH210)

Unique formula identifier (UFI)

-

2.3. Other hazards

Not applicable

Additional warnings

Not applicable

VOC (volatile organic compound)

VOC-Max: 55 g/l, MAXIMUM VOC CONTENT (A/i (WB)): 140 g/l.

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	(2-Methoxymethylethoxy)propanol
IDENTIFICATION NOS.:	CAS-no: 34590-94-8 EC-no: 252-104-2 REACH-no: 01-2119450011-60
CONTENT:	2.5-<5%
CLP CLASSIFICATION:	NA
NOTE:	O L
NAME:	1,2-Benzisothiazol-3(2H)-one (BIT)
IDENTIFICATION NOS.:	CAS-no: 2634-33-5 EC-no: 220-120-9 REACH-no: 01-2120761540-60 Index-no: 613-088-00-6
CONTENT:	<0.01%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2 H302, H315, H317, H318, H400, H411 (M-acute = 1)
NAME:	5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))
IDENTIFICATION NOS.:	CAS-no: 55965-84-9 EC-no: 247-500-7/220-239-6 REACH-no: 01-2120764691-48 Index-no: 613-167-00-5
CONTENT:	<0.0015%
CLP CLASSIFICATION:	Acute Tox. 3, Acute Tox. 2, Skin Corr. 1C, Skin Sens. 1A, Eye Dam. 1, Acute Tox. 2, Aquatic Acute 1, Aquatic Chronic 1 H301, H310, H314, H317, H318, H330, H400, H410 (M-acute = 100) (M-chronic = 100), EUH071

(*) 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(dermal) > 2000
 ATEmix(oral) > 2000

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.

According to EC-Regulation 2015/830

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30 °C) for at least 15 minutes. Seek medical assistance and 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.

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

Nothing special

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

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.

Storage temperature

> 5 °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-Methoxymethylethoxy)propanol

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 308 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Comments: Sk (Sk = Can be absorbed through skin)

DNEL / PNEC

DNEL ((2-Methoxymethylethoxy)propanol): 308 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ((2-Methoxymethylethoxy)propanol): 283 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ((2-Methoxymethylethoxy)propanol): 37,2 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL ((2-Methoxymethylethoxy)propanol): 121 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL ((2-Methoxymethylethoxy)propanol): 36 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 20 µg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 40 µg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 20 µg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - General population

DNEL (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 40 µg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 90 µg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 110 µg/kg bw/day

Exposure: Oral

Duration of Exposure: Short term – Systemic effects - General population

DNEL (1,2-Benzisothiazol-3(2H)-one (BIT)): 6,81 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1,2-Benzisothiazol-3(2H)-one (BIT)): 0,966 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1,2-Benzisothiazol-3(2H)-one (BIT)): 1,2 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (1,2-Benzisothiazol-3(2H)-one (BIT)): 0,345 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

PNEC ((2-Methoxymethylethoxy)propanol): 19 mg/l

Exposure: Freshwater

According to EC-Regulation 2015/830

PNEC ((2-Methoxymethylethoxy)propanol): 190 mg/l
Exposure: Intermittent release
Remarks: (freshwater)

PNEC ((2-Methoxymethylethoxy)propanol): 1,9 mg/l
Exposure: Marine water

PNEC ((2-Methoxymethylethoxy)propanol): 4168 mg/l
Exposure: Sewage Treatment Plant

PNEC ((2-Methoxymethylethoxy)propanol): 70,2 mg/kg dw
Exposure: Freshwater sediment

PNEC ((2-Methoxymethylethoxy)propanol): 7,02 mg/kg dw
Exposure: Marine water sediment

PNEC ((2-Methoxymethylethoxy)propanol): 2,74 mg/kg dw
Exposure: Soil

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 3,39 µg/l
Exposure: Freshwater

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 3,39 µg/l
Exposure: Intermittent release
Remarks: (freshwater)

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 3,39 µg/l
Exposure: Marine water

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 3,39 µg/l
Exposure: Intermittent release
Remarks: (marine water)

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 230 µg/l
Exposure: Sewage Treatment Plant

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 27 µg/kg dw
Exposure: Freshwater sediment

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 27 µg/kg dw
Exposure: Marine water sediment

PNEC (5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))): 10 µg/kg dw
Exposure: Soil

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 4,03 µg/l
Exposure: Freshwater

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 1,1 µg/l
Exposure: Intermittent release
Remarks: (freshwater)

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 0,403 µg/l
Exposure: Marine water

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 0,11 µg/l
Exposure: Intermittent release
Remarks: (marine water)

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 1,03 mg/l
Exposure: Sewage Treatment Plant

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 49,9 µg/kg dw
Exposure: Freshwater sediment

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 4,99 µg/kg dw
Exposure: Marine water sediment

PNEC (1,2-Benzisothiazol-3(2H)-one (BIT)): 3 mg/kg dw
Exposure: Soil

8.2. Exposure controls

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

According to EC-Regulation 2015/830

General recommendations

Smoking, eating and drinking are not allowed in the work premises.

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

Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.

Hand protection

Nitrile rubber

Eye protection

Wear face shield alternatively safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Whitish
Odour	Faint
Odour threshold (ppm)	No data available
pH	7-8
Viscosity (40°C)	No data available
Density (g/cm ³)	1,02

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

According to EC-Regulation 2015/830

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: 5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 66 mg/kg

Substance: 5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))
Species: Rat
Test: LD50
Route of exposure: Dermal
Result: 141 mg/kg

Substance: 1,2-Benzisothiazol-3(2H)-one (BIT)
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 490 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

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

According to EC-Regulation 2015/830

Nothing special

SECTION 12: Ecological information

12.1. Toxicity

Substance: 5-Chloro-2-methyl-2H-isothiazol-3-one/2-Methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT (3:1))

Species: Algae

Test: EC50

Duration: 72 h

Result: 0,027 mg/l

Substance: 1,2-Benzisothiazol-3(2H)-one (BIT)

Species: Pseudokirchneriella subcapitata

Test: ErC50

Duration: 72 h

Result: 0,11 mg/l

Substance: 1,2-Benzisothiazol-3(2H)-one (BIT)

Species: Skeletonema costatum

Test: NOEC

Duration: 72 h

Result: 0,027 mg/l

12.2. Persistence and degradability

Substance

5-Chloro-2-methyl-2H-isothiazo...

1,2-Benzisothiazol-3(2H)-one

(2-Methoxymethylethoxy)propano...

Biodegradability

Yes

Yes

Yes

Test

CO2 Evolution Test

Modified MITI Test

Manometric Resp. Test

Result

62 %

> 70 %

79 %

12.3. Bioaccumulative potential

Substance

5-Chloro-2-methyl-2H-isothiazo...

1,2-Benzisothiazol-3(2H)-one (...)

(2-Methoxymethylethoxy)propano...

Potential bioaccumulation

No

No

No

LogPow

0,75

0,64

0,004

BCF

No data available

6,62

No data available

12.4. Mobility in soil

5-Chloro-2-methyl-2H-isothiazo...: Log Koc= 0,672325, Calculated from LogPow (High mobility potential).

1,2-Benzisothiazol-3(2H)-one: Log Koc= 0,585216, Calculated from LogPow (High mobility potential).

(2-Methoxymethylethoxy)propano...: Log Koc= 0,0815676, 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 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

08 01 12

waste paint and varnish other than those mentioned in 08 01 11

Specific labelling

Not applicable

Contaminated packing

No specific requirements.

SECTION 14: Transport information

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

According to EC-Regulation 2015/830

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.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

Not applicable

Seveso

-

Biocidal reg. no.

Not applicable

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes

According to EC-Regulation 2015/830

and vehicle refinishing products and amending Directive 1999/13/EC.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

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 (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H301 - Toxic if swallowed.

H302 - Harmful if swallowed.

H310 - Fatal in contact with skin.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H330 - Fatal if inhaled.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H411 - Toxic to aquatic life with long lasting effects.

EUH071 - Corrosive to the respiratory tract.

The full text of identified uses as mentioned in section 1

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Additional label elements

Not applicable

Other

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

Admin

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

-

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

-