



Trade name: Marabu Dot Pen 25ml

Version: 2 / GB

Date revised: 03.11.2022

Substance number: 18010009013

Replaces Version: 1 / GB

Print date: 03.11.22

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

1.1. Product identifier

Marabu Dot Pen 25ml

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

Use of the substance/preparation

Paint

Identified Uses

SU21

Consumer uses: Private households (= general public = consumers)

PC9a

Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no. +49-7141/691-0

Information provided by / telephone Department product safety

E-mail address of person responsible for this SDS PRSI@marabu.com

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-Benzisothiazol-3(2h)-one, May produce an allergic reaction.

Supplemental information

Labelling according to regulation (EU) No 528/2012

Contains a biocidal product: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Paint based on water



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Hazardous ingredients**2-Butoxyethanol**

| | | | | |
|------------------|------------------|---|----|---|
| CAS No. | 111-76-2 | | | |
| EINECS no. | 203-905-0 | | | |
| Registration no. | 01-2119475108-36 | | | |
| Concentration | >= 1 | < | 10 | % |

Classification (Regulation (EC) No. 1272/2008)

| | |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Acute Tox. 4 | H332 |
| Acute Tox. 4 | H312 |
| Acute Tox. 4 | H302 |
| Eye Irrit. 2 | H319 |

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

| | | | | |
|---------------|-----------|---|------|---|
| CAS No. | 2634-33-5 | | | |
| EINECS no. | 220-120-9 | | | |
| Concentration | | < | 0,05 | % |

Classification (Regulation (EC) No. 1272/2008)

| | |
|-------------------|------|
| Aquatic Acute 1 | H400 |
| Skin Sens. 1 | H317 |
| Acute Tox. 4 | H302 |
| Skin Irrit. 2 | H315 |
| Eye Dam. 1 | H318 |
| Acute Tox. 2 | H330 |
| Aquatic Chronic 2 | H411 |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|--------------|------|---------|
| Skin Sens. 1 | H317 | >= 0,05 |
|--------------|------|---------|

Pyrithione zinc

| | | | | |
|------------------|------------------|---|-------|---|
| CAS No. | 13463-41-7 | | | |
| EINECS no. | 236-671-3 | | | |
| Registration no. | 01-2119511196-46 | | | |
| Concentration | >= 0,01 | < | 0,025 | % |

Classification (Regulation (EC) No. 1272/2008)

| | |
|-------------------|-------|
| Acute Tox. 3 | H301 |
| Acute Tox. 2 | H330 |
| Eye Dam. 1 | H318 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |
| STOT RE 1 | H372 |
| Repr. 1B | H360D |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|-------------------|------|----------|
| Aquatic Acute 1 | H400 | M = 1000 |
| Aquatic Chronic 1 | H410 | M = 10 |
| 1 | | |

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

| | | | | |
|---------------|------------|---|--------|---|
| CAS No. | 55965-84-9 | | | |
| Concentration | >= 0,001 | < | 0,0015 | % |

Classification (Regulation (EC) No. 1272/2008)

| | |
|-------------------|------|
| Acute Tox. 2 | H330 |
| Aquatic Chronic 1 | H410 |



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| | |
|-----------------|------|
| Aquatic Acute 1 | H400 |
| Skin Sens. 1A | H317 |
| Skin Corr. 1C | H314 |
| Acute Tox. 2 | H310 |
| Acute Tox. 3 | H301 |
| Eye Dam. 1 | H318 |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|-------------------|------|---------------|
| Skin Corr. 1C | H314 | >= 0,6 |
| Eye Irrit. 2 | H319 | >= 0,06 < 0,6 |
| Skin Irrit. 2 | H315 | >= 0,06 < 0,6 |
| Skin Sens. 1 | H317 | >= 0,0015 |
| Aquatic Acute 1 | H410 | M = 100 |
| Aquatic Chronic 1 | H410 | M = 100 |
| Eye Dam. 1 | H318 | >= 0,6 % |

SECTION 4: First aid measures**4.1. Description of first aid measures****After skin contact**

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Treat symptomatically

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

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke

5.3. Advice for firefighters**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

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

No particular measures required.

6.2. Environmental precautions



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No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires B (Combustible liquid substances)

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in frostfree conditions.

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2-Butoxyethanol

| | | | |
|---|------|----|--------|
| List | EH40 | | |
| Type | WEL | | |
| Value | | 25 | ppm(V) |
| Short term exposure limit | | 50 | ppm(V) |
| Skin resorption / sensibilisation: Sk; Status: 2011 | | | |

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

2-Butoxyethanol

| | | | |
|----------------------|--------------------------------|--|-------|
| Type of value | Derived No Effect Level (DNEL) | | |
| Reference group | Worker | | |
| Duration of exposure | Acute | | |
| Route of exposure | dermal | | |
| Mode of action | Systemic effects | | |
| Concentration | 89 | | mg/kg |

| | | | |
|----------------------|--------------------------------|--|-------------------|
| Type of value | Derived No Effect Level (DNEL) | | |
| Reference group | Worker | | |
| Duration of exposure | Short term | | |
| Route of exposure | inhalative | | |
| Mode of action | Systemic effects | | |
| Concentration | 1091 | | mg/m ³ |

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Type of value Derived No Effect Level (DNEL)
 Reference group General Population
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 147 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 125 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 98 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Acute
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 89,5 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Acute
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 426 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Acute
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 26,7 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Acute
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 147 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 75 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer



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| | | |
|----------------------|--------------------------------|-------------------|
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 59 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 6,3 | mg/kg |

Predicted No Effect Concentration (PNEC)

2-Butoxyethanol

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 8,8 | mg/l |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 2,8 | mg/kg |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 34,6 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 463 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,88 | mg/l |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 3,46 | mg/kg |

8.2. Exposure controls

Exposure controls

Provide adequate ventilation.

Respiratory protection

Not necessary.

Hand protection

Not necessary.

In case of intensive contact wear protective gloves.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.



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Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Not necessary.

Body protection

Not applicable.

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

| | |
|---|---------------------------------|
| Form | liquid |
| Colour | coloured |
| Odour | odourless |
| Odour threshold | |
| Remarks | No data available |
| Melting point | |
| Remarks | not determined |
| Freezing point | |
| Remarks | not determined |
| Initial boiling point and boiling range | |
| Remarks | Not applicable |
| Flash point | |
| Remarks | Not applicable |
| Evaporation rate (ether = 1) : | |
| Remarks | not determined |
| Flammability (solid, gas) | |
| Remarks | Not applicable |
| Upper/lower flammability or explosive limits | |
| Remarks | not determined |
| Vapour pressure | |
| Value | appr. 23 hPa |
| Temperature | 20 °C |
| Method | Value taken from the literature |
| Vapour density | |
| Remarks | not determined |
| Density | |
| Remarks | not determined |
| Solubility in water | |
| Remarks | miscible |
| Ignition temperature | |
| Remarks | not determined |
| Viscosity | |
| Remarks | |
| Remarks | not determined |

9.2. Other information



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Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

| | | | |
|--------|---|--|-------|
| ATE | > | 2.000 | mg/kg |
| Method | | calculated value (Regulation (EC) No. 1272/2008) | |

Acute oral toxicity (Components)**Pyrithione zinc**

| | | | |
|-----|--|-----|-------|
| ATE | | 221 | mg/kg |
|-----|--|-----|-------|

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

| | | | |
|---------|-----|------|-------|
| Species | rat | | |
| LD50 | | 1193 | mg/kg |

2-Butoxyethanol

| | | | |
|-----|--|------|-------|
| ATE | | 1200 | mg/kg |
|-----|--|------|-------|

Acute dermal toxicity

| | | | |
|--------|---|--|-------|
| ATE | > | 2.000 | mg/kg |
| Method | | calculated value (Regulation (EC) No. 1272/2008) | |

Acute dermal toxicity (Components)**1,2-Benzisothiazol-3(2h)-one**

| | | | |
|---------|-----|------|-------|
| Species | rat | | |
| LD50 | | 4115 | mg/kg |

Acute inhalational toxicity

| | | | |
|---------------------|---|--|------|
| ATE | > | 20 | mg/l |
| Administration/Form | | Vapors | |
| Method | | calculated value (Regulation (EC) No. 1272/2008) | |

| | | | |
|-----|---|---|------|
| ATE | > | 5 | mg/l |
|-----|---|---|------|

| | | | |
|---------------------|--|--|--|
| Administration/Form | | Dust/Mist | |
| Method | | calculated value (Regulation (EC) No. 1272/2008) | |

| | | | |
|---------|---|--|--|
| Remarks | Based on available data, the classification criteria are not met. | | |
|---------|---|--|--|

Acute inhalative toxicity (Components)**Pyrithione zinc**



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| | | |
|---------------------|-----------|------|
| ATE | 0,14 | mg/l |
| Administration/Form | Dust/Mist | |

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Sensitization

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

Sensitization (Components)**2-Butoxyethanol**

| | |
|--------------------|----------------------------|
| Route of exposure | dermal |
| Species evaluation | guinea pig non-sensitizing |

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

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

Aspiration hazard

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

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

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

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

Fish toxicity (Components)**Pyrithione zinc**

| | |
|----------------------|-------------------------------------|
| Species | rainbow trout (Oncorhynchus mykiss) |
| LC50 | 0,14 mg/l |
| Duration of exposure | 96 h |

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

| | |
|---------|-------------------------------------|
| Species | rainbow trout (Oncorhynchus mykiss) |
| LC50 | 0,188 mg/l |



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Duration of exposure 96 h

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

Species rainbow trout (*Oncorhynchus mykiss*)
 LC50 2,18 mg/l
 Duration of exposure 96 h

Daphnia toxicity (Components)**Pyrithione zinc**

Species *Daphnia magna*
 EC50 0,05 mg/l
 Duration of exposure 48 h

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species *Daphnia magna*
 EC50 0,126 mg/l
 Duration of exposure 48 h

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

Species *Daphnia magna*
 EC50 2,94 mg/l
 Duration of exposure 48 h

Algae toxicity (Components)**Pyrithione zinc**

Species *Selenastrum capricornutum*
 IC50 0,067 mg/l
 Duration of exposure 72 h

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Species *Selenastrum capricornutum*
 EC50 0,027 mg/l
 Duration of exposure 72 h

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

Species *Pseudokirchneriella subcapitata*
 ErC50 0,11 mg/l
 Duration of exposure 72 h

12.2. Persistence and degradability**General information**

There are no data available on the mixture itself.

12.3. Bioaccumulative potential**General information**

There are no data available on the mixture itself.

12.4. Mobility in soil**General information**

There are no data available on the mixture itself.

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

There are no data available on the mixture itself.

12.6. Other adverse effects**General information**

There are no data available on the mixture itself.

SECTION 13: Disposal considerations



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13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.
 Dispose of waste according to applicable legislation.
 Dispose of as hazardous waste.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.
 Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|--|--|
| 14.1. UN number | The product does not constitute a hazardous substance in land transport.- | The product does not constitute a hazardous substance in sea transport.- | The product does not constitute a hazardous substance in air transport.- |
| 14.2. UN proper shipping name | - | - | - |
| 14.3. Transport hazard class(es) | - | - | - |
| Subsidiary risk | | - | - |
| Label | | | |
| 14.4. Packing group | - | - | - |
| Transport category | 0 | | |
| 14.5. Environmental hazards | - | no | - |

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:
 Always transport in closed containers that are upright and secure.
 Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

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

no

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU) 2,9 %

Other information

The product does not contain substances of very high concern (SVHC).



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Other information

All components are contained in the TSCA inventory or exempted.
 All components are contained in the DSL inventory.
 All components are contained in the ECL inventory.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

| | |
|-------|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H312 | Harmful 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. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H360D | May damage the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| 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. |

CLP categories listed in Chapter 3

| | |
|-------------------|--|
| Acute Tox. 2 | Acute toxicity, Category 2 |
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Skin Corr. 1C | Skin corrosion, Category 1C |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1A | Skin sensitization, Category 1A |
| STOT RE 1 | Specific target organ toxicity - repeated exposure, Category 1 |

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
 The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
 The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

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