

SAFETY DATA SHEETS

This SDS packet was issued with item:

078392913

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078399244



PERMECTRIN® II

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 07/30/2015 |
| 3.0 | 09/17/2019 | 122000008520 | Date of first issue: 02/14/2013 |

SECTION 1. IDENTIFICATION

Product information

Product Name : PERMECTRIN® II
SDS Number : 122000008520

Use : Pesticide

Company

Bayer HealthCare, LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES OF AMERICA
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtrec: (800) 424-9300
BAYER INFORMATION PHONE: (800) 633-3796
INTERNATIONAL: (703) 527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 4
Acute toxicity (Oral) : Category 4
Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 1B

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H227 Combustible liquid.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.



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H340 May cause genetic defects.
H350 May cause cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|--------------|-----------------------|
| Permethrin | 52645-53-1 | 10 |
| Nonionic surfactant | Not Assigned | 6.5 |
| Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts | 68953-96-8 | 2.2 |
| n-Butanol | 71-36-3 | 1.5 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | 1 |

SECTION 4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.

If inhaled : Remove to fresh air.
Call a physician immediately.

In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.
If skin reactions occur, contact a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : In case of accidental ingestion, contact your regional poison center or physician immediately.

Most important symptoms and effects, both acute and delayed : No information available.



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Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Fire may cause evolution of:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
No special precautions required.
- Methods and materials for containment and cleaning up : Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special protective measures against fire required.
- Advice on safe handling : Avoid formation of aerosol.
Use with local exhaust ventilation.
Avoid contact with skin, eyes and clothing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------|------------|----------------------------------|--|-----------|
| Permethrin | 52645-53-1 | SUP | 10 mg/m ³ | |
| n-Butanol | 71-36-3 | TWA | 20 ppm | ACGIH |
| | | C | 50 ppm 150 mg/m ³ | NIOSH REL |
| | | TWA | 100 ppm 300 mg/m ³ | OSHA Z-1 |

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| | | | | |
|---|------------|-----|---|----------|
| | | C | 50 ppm 150 mg/m3 | OSHA P0 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | TWA | 500 ppm 2,000 mg/m3 | OSHA Z-1 |
| | | TWA | 200 mg/m3 (total hydrocarbon vapor) | ACGIH |
| | | TWA | 400 ppm 1,600 mg/m3 | OSHA P0 |

Personal protective equipment

Respiratory protection : Recommended Filter type:
Organic vapor with prefilter

None required for consumer use of this product.

Hand protection
Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

Eye protection : Safety glasses
None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.
Please consult label for end-user requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Light yellow to yellow

Odour : oily

pH : 4.86
Concentration: 10 g/l

Boiling point/boiling range : 230 °F / 110 °C

Flash point : 151 °F / 66 °C

Density : 0.859 g/cm³

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Explosive properties : No statements available.

Oxidizing properties : No data available



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Impact sensitivity : No data available

Minimum ignition energy : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous reactions : No data available

Conditions to avoid : No data available

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Carbon monoxide (CO)
Carbon dioxide (CO₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate (ATE): 962.66 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate (ATE): 23 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg
Method: Calculation method

Components:**Permethrin:**

Acute oral toxicity : LD₅₀ (Rat): 430 mg/kg
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC₅₀ (Rat): 2.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD₅₀ (Rabbit): > 2,000 mg/kg
LD₅₀ (Rat): > 2,500 mg/kg



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Assessment: The component/mixture is minimally toxic after single contact with skin.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD 401
Assessment: The component/mixture is minimally toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat): > 1,000 - 1,600 mg/kg
Method: OECD 402
Assessment: The component/mixture is moderately toxic after single contact with skin.

n-Butanol:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation**Components:****Permethrin:**

Species : Rabbit
Result : No skin irritation

Nonionic surfactant:

Result : Causes skin irritation.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Rabbit
Exposure time : 4 h
Method : OECD 404
Result : Irritating to skin.

n-Butanol:

Species : Rabbit
Method : OECD 404
Result : Irritating to skin.

Serious eye damage/eye irritation**Components:****Permethrin:**

Species : Rabbit
Result : Mild eye irritation

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Result : Irritating to eyes.



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Exposure time : 1 - 14 d

n-Butanol:

Species : Rabbit
Result : Risk of serious damage to eyes.
Method : OECD 405

Respiratory or skin sensitisation**Components:****Permethrin:**

Result : May cause sensitisation by skin contact.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Guinea pig
Method : OECD 406
Remarks : Did not cause sensitisation on laboratory animals.

n-Butanol:

Test Type : Skin sensitisation
Species : Guinea pig
Method : OECD 406
Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity**Components:****Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

n-Butanol:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Test Type: Micronucleus test
Result: negative

Test Type: In vitro gene mutation study in mammalian cells
Test system: Hamster V79-cells
Method: OECD 476
Result: No evidence of a genotoxic effect.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Method: OECD 474



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Result: No evidence of a genotoxic effect.

Solvent naphtha (petroleum), light arom.:

Germ cell mutagenicity - Assessment : In vivo tests showed mutagenic effects

Carcinogenicity**Components:****Solvent naphtha (petroleum), light arom.:**

Carcinogenicity - Assessment : Possible human carcinogen

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Components:****Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Effects on fertility : Result: Animal testing did not show any effects on fertility.
Remarks: Data on a comparable substance

Effects on foetal development : Species: Mouse, female
Application Route: Oral
Frequency of Treatment: 1 daily
General Toxicity Maternal: NOAEL: 2 mg/kg body weight
Teratogenicity: NOAEL: 300 mg/kg body weight
Result: No indication of teratogenic effects.
Remarks: Data on a comparable substance

STOT - single exposure**Components:****Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

n-Butanol:

Assessment : May cause respiratory irritation.

Exposure routes : Inhalation
Assessment : May cause drowsiness or dizziness.



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STOT - repeated exposure**Components:****Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

| | | |
|------------|---|--|
| Assessment | : | The substance or mixture is not classified as specific target organ toxicant, repeated exposure. |
|------------|---|--|

Repeated dose toxicity**Components:****Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

| | | |
|---------------------|---|--|
| Species | : | Rat, male and female |
| NOAEL | : | 50 mg/kg |
| LOAEL | : | 250 mg/kg |
| Application Route | : | Oral |
| Exposure time | : | 3 month |
| Number of exposures | : | Once daily |
| Remarks | : | Subacute toxicity Argument by analogy |

| | | |
|---------------------|---|--|
| Species | : | Rat, male and female |
| NOAEL | : | 85 mg/kg |
| LOAEL | : | 145 mg/kg |
| Application Route | : | Oral |
| Exposure time | : | 9 months |
| Number of exposures | : | Once daily |
| Remarks | : | Subchronic toxicity Argument by analogy |

Aspiration toxicity**Components:****n-Butanol:**

May be harmful if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.:

May be fatal if swallowed and enters airways.

Experience with human exposure**Components:****n-Butanol:**

| | | |
|---------------------|---|--|
| General Information | : | May cause skin irritation and/or dermatitis. |
|---------------------|---|--|



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Further information

Components:**Permethrin:**

Pharmaceutic effects

Remarks : Insecticide

Remarks : Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

n-Butanol:

Remarks : Liver and kidney injuries may occur.

Remarks : After absorption of large quantities
Dizziness
Liver disorders
drowsiness
Headache
Weakness

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity**Components:****Permethrin:**Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.00017 mg/l
Exposure time: 48 hToxicity to algae/aquatic plants : EC50: 0.5 mg/l
Exposure time: 72 h**Nonionic surfactant:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity
Method: OECD 203
Remarks: Nominal concentrationToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 56 - 100 mg/l
Exposure time: 48 h
Method: OECD 202
Remarks: Nominal concentration



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- | | | |
|--|---|---|
| Toxicity to algae/aquatic plants | : | NOEC (Selenastrum Capricornutum (Green algae)): 0.5 mg/l Exposure time: 96 h Test substance: Argument by analogy Remarks: Nominal concentration |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l Exposure time: 72 d Analytical monitoring: yes Test substance: Argument by analogy |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 1.18 mg/l Exposure time: 21 d Analytical monitoring: yes Test substance: Data on a comparable substance Method: OECD 211 |
| Toxicity to microorganisms | : | EC50 (Photobacterium phosphoreum): 1,225 mg/l Exposure time: 0.25 h Method: OECD 209 |
| Toxicity to soil dwelling organisms | : | EC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg Exposure time: 14 d Method: OECD 207 |

Ecotoxicology Assessment

- | | | |
|--------------------------|---|--|
| Acute aquatic toxicity | : | Toxic to aquatic life. |
| Chronic aquatic toxicity | : | Toxic to aquatic life with long lasting effects. |

n-Butanol:

- | | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 1,730 mg/l Exposure time: 96 h Test Type: Acute Fish toxicity |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1,983 mg/l Exposure time: 48 h |

Solvent naphtha (petroleum), light arom.:**Ecotoxicology Assessment**

- | | | |
|------------------------|---|--|
| Acute aquatic toxicity | : | No relevant data for classification available. |
|------------------------|---|--|

Persistence and degradability**Components:****Permethrin:**

- | | | |
|------------------|---|--|
| Biodegradability | : | Result: Not rapidly biodegradable Biodegradation: 0 % Testing period: 7 d Exposure time: 28 d Kinetic: 7 d: 0 % |
|------------------|---|--|



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14 d: 0 %
21 d: 0 %
28 d: 0 %

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Biodegradability : Result: Not rapidly biodegradable
Biodegradation: 2.9 %
Method: OECD 301E

n-Butanol:

Biodegradability : Result: rapidly biodegradable
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD 301E

Bioaccumulative potential**Components:****Permethrin:**

Partition coefficient: n-octanol/water : log Pow: 5.95

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Bioaccumulation : Bioconcentration factor (BCF): 3.16
Remarks: Does not bioaccumulate.

n-Butanol:

Partition coefficient: n-octanol/water : log Pow: 1
Method: OECD 117

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : Do not allow to enter surface waters or groundwater.

Components:**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Results of PBT and vPvB assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

SECTION 14. TRANSPORT INFORMATION

US Land transport (CFR)

Non-regulated

Sea transport (IMDG)

UN Number 3082
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)
Class 9
Packaging group III
IMDG-Labels 9
EmS Number F-A
Marine pollutant yes

Air transport (IATA)

UN Number 3082
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)
Class 9
Packaging group III
Dangerous goods labels 9
Environmentally hazardous yes

Other information : Environmentally hazardous substance Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
| n-Butanol | 71-36-3 | 100 | 100 (F003) |
| n-Butanol | 71-36-3 | 5000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.



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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|------------|------------|----------|
| Permethrin | 52645-53-1 | 9.9999 % |
| n-Butanol | 71-36-3 | 1.5 % |

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

| | | |
|-----------|---------|-------|
| n-Butanol | 71-36-3 | 1.5 % |
|-----------|---------|-------|

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations**Massachusetts Right To Know**

| | |
|------------|------------|
| Permethrin | 52645-53-1 |
| n-Butanol | 71-36-3 |

Pennsylvania Right To Know

| | |
|--|------------|
| Distillates (petroleum), straight-run middle | 64741-44-2 |
| n-Butanol | 71-36-3 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 |
| 1,2,4-Trimethylbenzene | 95-63-6 |

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

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Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

New York City Hazardous Substances

| | |
|--|------------|
| Distillates (petroleum), straight-run middle | 64741-44-2 |
| n-Butanol | 71-36-3 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 |
| 1,2,4-Trimethylbenzene | 95-63-6 |

California List of Hazardous Substances

| | |
|-----------|---------|
| n-Butanol | 71-36-3 |
|-----------|---------|

California Permissible Exposure Limits for Chemical Contaminants

| | |
|-----------|---------|
| n-Butanol | 71-36-3 |
|-----------|---------|

The components of this product are reported in the following inventories:

TSCA : Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

| | | | |
|------------|------------------|-----------------|----------|
| Health - 2 | Flammability - 2 | Instability - 0 | Others - |
|------------|------------------|-----------------|----------|

HMIS® IV:

| | | | |
|------------|------------------|-----------------|----------|
| Health - 2 | Flammability - 2 | Instability - 0 | Others - |
|------------|------------------|-----------------|----------|

Full text of other abbreviations

| | |
|----------------|--|
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| NIOSH REL | : USA. NIOSH Recommended Exposure Limits |
| OSHA P0 | : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000 |
| OSHA Z-1 | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| ACGIH / TWA | : 8-hour, time-weighted average |
| NIOSH REL / C | : Ceiling value not be exceeded at any time. |
| OSHA P0 / TWA | : 8-hour time weighted average |
| OSHA P0 / C | : Ceiling limit |
| OSHA Z-1 / TWA | : 8-hour time weighted average |

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US / EN