

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

SECTION 1: Identification

1.1 Product identifier

Trade name **Weld-On® All Seal™ Plus**
Product category/ies Pipe Thread Sealant

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

Relevant identified uses sealant

1.3 Details of the supplier of the safety data sheet

Weld-On
17109 S. Main
Gardena CA 90248-3127
United States

Telephone: 1-310-898-3300
e-mail: EHSInfo@ipscorp.com
Website: www.weldon.com

1.4 Emergency telephone number

Emergency information service 24 Hours - CHEMTEL: (800) 255-3924; International (813) 248-0585

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Hazard class | Category |
|---|----------|
| acute toxicity (inhal.) | 4 |
| skin corrosion/irritation | 2 |
| serious eye damage/eye irritation | 2B |
| specific target organ toxicity - single exposure (respiratory tract irritation) | 3 |

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H315+H320 Causes skin and eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

- Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves.
- P302+P352 If on skin: Wash with plenty of water.
- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a poison center/doctor if you feel unwell.
- P321 Specific treatment (see on this label).
- P362 Take off contaminated clothing and wash before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling Distillates (petroleum), hydrotreated light paraffinic, Talc

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Hazards not otherwise classified

Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|---|----------------------|-----------|----------------------------|
| Distillates (petroleum), hydro-treated light paraffinic | CAS No 64742-55-8 | 25 - < 50 | Acute Tox. 4 / H332 |
| Dipropylene glycol monomethyl ether | CAS No 34590-94-8 | 10 - < 25 | Flam. Liq. 4 / H227 |
| Talc | CAS No 14807-96-6 | 10 - < 25 | Acute Tox. 4 / H332 |
| Crystalline silica (quartz) | CAS No 14808-60-7 | 10 - < 25 | Carc. 1A / H350 |



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

Flash point

>450 °F

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

7.3 Specific end use(s)

See section 16 for a general overview.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|---------------|------------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|-----------------------------------|------------------|
| US | zinc oxide | 1314-13-2 | REL | | 5 (10 h) | | | | 15 | dust | NIOSH REL |
| US | zinc oxide | 1314-13-2 | PEL (CA) | | 5 | | 10 | | | fume | Cal/ OSHA PEL |
| US | zinc oxide | 1314-13-2 | REL | | 5 (10 h) | | 10 | | | fume | NIOSH REL |
| US | zinc oxide | 1314-13-2 | PEL | | 5 | | | | | fume | 29 CFR 1910.1000 |
| US | zinc oxide | 1314-13-2 | PEL | | 15 | | | | | i, dust | 29 CFR 1910.1000 |
| US | zinc oxide | 1314-13-2 | TLV® | | 2 | | 10 | | | r | ACGIH® 2023 |
| US | zinc oxide | 1314-13-2 | PEL | | 5 | | | | | r, dust | 29 CFR 1910.1000 |
| US | talc | 14807-96-6 | PEL (CA) | 1 | | | | | | +asb, fib/cm ³ | Cal/ OSHA PEL |
| US | talc | 14807-96-6 | TLV® | | 0.1 | | | | | fib/cm ³ , +asb, CA-10 | ACGIH® 2023 |
| US | talc | 14807-96-6 | PEL | | 0.1 | | 1 (30 min) | | | no_asb, fib/ml | 29 CFR 1910.1000 |
| US | talc | 14807-96-6 | PEL (CA) | | 2 | | | | | no_asb, r, less1silica | Cal/ OSHA PEL |
| US | talc | 14807-96-6 | PEL | 706 | | | | | | partml, noAsb, less1Sil, r | 29 CFR 1910.1000 |
| US | talc | 14807-96-6 | REL | | 2 (10 h) | | | | | r, less1silica, no_asb | NIOSH REL |
| US | talc | 14807-96-6 | TLV® | | 2 | | | | | r, noAsb, less1Sil | ACGIH® 2023 |



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
|---------|---|------------|------------|------------|-------------|------------|--------------|-----------------|-------------------|-------------|------------------|
| US | quartz | 14808-60-7 | PEL (CA) | | 0.05 | | | | | r | Cal/ OSHA PEL |
| US | silica, crystalline - quartz | 14808-60-7 | PEL | | 0.05 | | | | | r | 29 CFR 1910.1000 |
| US | silica, crystalline - quartz | 14808-60-7 | REL | | 0.05 (10 h) | | | | | r, appx-A | NIOSH REL |
| US | dipropylene glycol methyl ether | 34590-94-8 | PEL (CA) | 100 | 600 | 150 | 900 | | | | Cal/ OSHA PEL |
| US | dipropylene glycol methyl ether | 34590-94-8 | REL | 100 (10 h) | 600 (10 h) | 150 | 900 | | | | NIOSH REL |
| US | dipropylene glycol methyl ether | 34590-94-8 | PEL | 100 | 600 | | | | | | 29 CFR 1910.1000 |
| US | dipropylene glycol methyl ether (DP-GME) | 34590-94-8 | TLV® | 50 | | | | | | | ACGIH® 2023 |
| US | silica, amorphous | 7631-86-9 | REL | | 6 (10 h) | | | | | | NIOSH REL |
| US | Polytetrafluoroethylene, decomposition products | 9002-84-0 | PEL (CA) | | | | | | | PTFE-decomp | Cal/ OSHA PEL |

Notation

- +asb containing asbestos fibers
- appx-A NIOSH Potential Occupational Carcinogen (Appendix A)
- CA-10 Respirable fibers: length > 5µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination.
- Ceiling-C ceiling value is a limit value above which exposure should not occur
- dust as dust
- fib/cm³ fibers/cm³
- fib/ml fibers/ml
- fume as fume
- i inhalable fraction
- less1silica with less than 1 % free crystalline silica
- no_asb containing no asbestos fibers
- noAsb_less1S contains no asbestos and less than 1% free crystalline silica
- il
- partml particles/ml
- PTFE-decomp Thermal decomposition of the fluorocarbon chain in air leads to the formation of oxidized products containing carbon, fluorine and oxygen. An index of exposure to these products is possible through their alkaline hydrolysis followed by a quantitative determination of fluoride content. No particular concentration limit is specified pending evaluation of the toxicity of the products but concentrations should be kept below the sensitivity of the analytical method
- r respirable fraction
- STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
- TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

Relevant DNELs of components

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|-------------------------------------|------------|----------|------------------------|------------------------------------|-------------------|----------------------------|
| Dipropylene glycol monomethyl ether | 34590-94-8 | DNEL | 308 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Dipropylene glycol monomethyl ether | 34590-94-8 | DNEL | 283 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Talc | 14807-96-6 | DNEL | 2.16 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Talc | 14807-96-6 | DNEL | 2.16 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| Talc | 14807-96-6 | DNEL | 3.6 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| Talc | 14807-96-6 | DNEL | 3.6 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| Talc | 14807-96-6 | DNEL | 43.2 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

Relevant PNECs of components

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------------------------|------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Dipropylene glycol monomethyl ether | 34590-94-8 | PNEC | 19 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Dipropylene glycol monomethyl ether | 34590-94-8 | PNEC | 1.9 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Dipropylene glycol monomethyl ether | 34590-94-8 | PNEC | 4,168 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Dipropylene glycol monomethyl ether | 34590-94-8 | PNEC | 70.2 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Dipropylene glycol monomethyl ether | 34590-94-8 | PNEC | 7.02 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Dipropylene glycol monomethyl ether | 34590-94-8 | PNEC | 2.74 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Talc | 14807-96-6 | PNEC | 598 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Talc | 14807-96-6 | PNEC | 141.3 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Talc | 14807-96-6 | PNEC | 31.33 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Talc | 14807-96-6 | PNEC | 3.13 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|-----------------------|
| Physical state | liquid (paste) |
| Color | yellow |
| Particle | not relevant (liquid) |
| Odor | characteristic |

Other safety parameters

| | |
|---|-----------------------|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 189.6 °C at 760 mmHg |
| Flash point | >450 °F |
| Flash point | >450 °F |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |

Weld-On® All Seal™ PlusVersion number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

Explosive limits

| | |
|-------------------------------|-----------------------------------|
| - Lower explosion limit (LEL) | 1.1 vol% |
| - Upper explosion limit (UEL) | 14 vol% |
| Vapor pressure | 10 mmHg at 75.1 °C |
| Density | 1.32 g/cm ³ at 80 °F |
| Vapor density | this information is not available |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|-----------------------------|--|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | 207 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

9.2 Other information

| | |
|--|---|
| VOC content | When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: |
| Temperature class (USA, acc. to NEC 500) | T3 (maximum permissible surface temperature on the equipment: 200°C) |

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

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if inhaled.

| Acute toxicity estimate (ATE) of components | | | |
|--|------------|-----------------------|--------------------------|
| Name of substance | CAS No | Exposure route | ATE |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | inhalation: vapor | 11 mg _i /4h |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | inhalation: dust/mist | 2.18 mg _i /4h |
| Talc | 14807-96-6 | inhalation: dust/mist | >2.1 mg _i /4h |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans | | | |
|---|------------|----------------|--------|
| Name of substance | CAS No | Classification | Number |
| Talc | 14807-96-6 | 3 | |
| Talc | 14807-96-6 | 2B | |
| Crystalline silica (quartz) | 14808-60-7 | 1 | |

Legend

- 1 Carcinogenic to humans
- 2B Possibly carcinogenic to humans
- 3 Not classifiable as to carcinogenicity in humans

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components | | | | | |
|--|------------|----------|--------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | LL50 | >100 mg/l | fish | 96 h |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | EL50 | >10,000 mg/l | aquatic invertebrates | 24 h |
| Dipropylene glycol mono-methyl ether | 34590-94-8 | LC50 | >1,000 mg/l | fish | 96 h |
| Dipropylene glycol mono-methyl ether | 34590-94-8 | ErC50 | >969 mg/l | algae | 72 h |
| Dipropylene glycol mono-methyl ether | 34590-94-8 | EC50 | >969 mg/l | algae | 72 h |
| Talc | 14807-96-6 | LC50 | 89,581 mg/l | fish | 96 h |
| Talc | 14807-96-6 | EC50 | 7,203 mg/l | algae | 96 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

| | | |
|------|--|---|
| 14.1 | UN number | not subject to transport regulations |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) | none |
| 14.4 | Packing group | not assigned |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user | There is no additional information. |
| 14.7 | Transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed as ACTIVE

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|--|------------|---------------|----------------------------|
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | | EC Annex VI CMRs - Cat. 1B |
| Crystalline silica (quartz) | 14808-60-7 | | IARC Carcinogens - 1 |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-----------------------------|--------|----------|-----------------|---------------------|------------------------------------|
| Crystalline silica (quartz) | | 1095 | | | 1.0 % |

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|-------------------------------------|------------|------------|---------|
| Talc | 14807-96-6 | A, O | fiber |
| Talc | 14807-96-6 | A, R, * | fiber |
| Dipropylene glycol monomethyl ether | 34590-94-8 | A, O | |
| Crystalline silica (quartz) | | A, * | |

Legend

- * Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

Legend

R International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|-------------------------------------|------------|-------------------------------|-----------------|
| Talc | 14807-96-6 | containing no asbestos fibers | |
| Talc | 14807-96-6 | containing asbestos fibers | CA |
| Dipropylene glycol monomethyl ether | 34590-94-8 | | F2 |
| Crystalline silica (quartz) | 14808-60-7 | | CA |

Legend

CA Carcinogenic
F2 Flammable - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No | Classification |
|------------------------------------|------------|----------------|
| TALC (MG3H2(SIO3)4) | 14807-96-6 | |
| PROPANOL, (2-METHOXYMETHYLETHOXY)- | 34590-94-8 | |
| QUARTZ (SIO2) | 14808-60-7 | |

- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|-------------------------------------|------------|------------|
| Talc | 14807-96-6 | T |
| Dipropylene glycol monomethyl ether | 34590-94-8 | T |
| Crystalline silica (quartz) | 14808-60-7 | T |
| Crystalline silica (quartz) | 14808-60-7 | T |

Legend

T Toxicity (ACGIH®)

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|--------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 1 | material that must be preheated before ignition can occur |

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

| Category | Rating | Description |
|---------------------|--------|--|
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 1 | material that must be preheated before ignition can occur |
| Health | 2 | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|-------------------------------------|
| AU | AIIC | all ingredients are listed |
| CA | DSL | all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| KR | KECI | all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | all ingredients are listed |
| PH | PICCS | all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | all ingredients are listed |
| US | TSCA | all ingredients are listed (ACTIVE) |

Legend

| | |
|-----------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

Legend

REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|---|-----------------|
| 2.3 | | Hazards not otherwise classified: change in the listing (table) | yes |
| 2.3 | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$. | yes |
| 7.2 | - Packaging compatibilities: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. | | yes |
| 12.1 | Toxicity: Toxic to aquatic life with long lasting effects. | Toxicity: Harmful to aquatic life with long lasting effects. | yes |
| 12.6 | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$. | yes |
| 13.1 | Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. | Waste treatment of containers/packages: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. | yes |
| 14.1 | UN number | UN number: not subject to transport regulations | yes |
| 14.1 | DOT: UN 3082 | | yes |
| 14.1 | IMDG-Code: UN 3082 | | yes |
| 14.1 | ICAO-TI: UN 3082 | | yes |
| 14.2 | DOT: Environmentally hazardous substance, liquid, n.o.s. | | yes |
| 14.2 | IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | | yes |
| 14.2 | ICAO-TI: Environmentally hazardous substance, liquid, n.o.s. | | yes |
| 14.2 | Technical name (hazardous ingredients): zinc oxide | | yes |



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|---|-----------------|
| 14.3 | DOT: 9 | | yes |
| 14.3 | IMDG-Code: 9 | | yes |
| 14.3 | ICAO-TI: 9 | | yes |
| 14.4 | DOT: III | | yes |
| 14.4 | IMDG-Code: III | | yes |
| 14.4 | ICAO-TI: III | | yes |
| 14.5 | Environmentally hazardous substance (aquatic environment): zinc oxide | | yes |
| 14.7 | Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: zinc oxide), 9, III | | yes |
| 14.7 | Danger label(s): 9, fish and tree | | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | Environmental hazards: yes (hazardous to the aquatic environment) | | yes |
| 14.7 | Special provisions (SP): 8, 146, 173, 335, 441, IB3, T4, TP1, TP29 | | yes |
| 14.7 | ERG No: 171 | | yes |
| 14.7 | Marine pollutant: yes (hazardous to the aquatic environment) (zinc oxide) | | yes |
| 14.7 | Danger label(s): 9, fish and tree | | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | Special provisions (SP): 274, 335, 969 | | yes |
| 14.7 | Excepted quantities (EQ): E1 | | yes |
| 14.7 | Limited quantities (LQ): 5 L | | yes |
| 14.7 | EmS: F-A, S-F | | yes |



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 14.7 | Stowage category: A | | yes |
| 14.7 | Environmental hazards: yes (hazardous to the aquatic environment) | | yes |
| 14.7 | Danger label(s): 9, fish and tree | | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | Special provisions (SP): A97, A158, A197, A215 | | yes |
| 14.7 | Excepted quantities (EQ): E1 | | yes |
| 14.7 | Limited quantities (LQ): 30 kg | | yes |
| 14.2 | UN proper shipping name | UN proper shipping name: not relevant | yes |
| 14.3 | Transport hazard class(es) | Transport hazard class(es): none | yes |
| 14.4 | Packing group | Packing group: not assigned | yes |
| 14.5 | Environmental hazards: hazardous to the aquatic environment | Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations | yes |
| 14.7 | Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information | Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information: Not subject to transport regulations. | yes |
| 14.7 | International Maritime Dangerous Goods Code (IMDG) - Additional information | International Maritime Dangerous Goods Code (IMDG) - Additional information: Not subject to IMDG. | yes |
| 14.7 | International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information | International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information: Not subject to ICAO-IATA. | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------|--|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits) |
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® | American Conference of Governmental Industrial Hygienists |
| ACGIH® 2023 | From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox. | Acute toxicity |



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| ATE | Acute Toxicity Estimate |
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |
| Carc. | Carcinogenicity |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEP CODE | Department of Environmental Protection Code |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HHS | Higher hazard substance |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LHS | Lower hazard substance |
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Weld-On® All Seal™ Plus

Version number: 2.0
Replaces version of: 2023-08-30 (1)

Revision: 2023-10-27

| Abbr. | Descriptions of used abbreviations |
|-------|---|
| PEL | Permissible exposure limit |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| STEL | Short-term exposure limit |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---------------------|
| H227 | Combustible liquid. |
| H332 | Harmful if inhaled. |
| H350 | May cause cancer. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.