

WÜRTH GULF SUBMITTAL PERFECT METAL SURFACE ZINC SPRAY

Art. No. 0893 11411...

Content: 400 ml

MSDS



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

0893 114112 - Würth Zinc Spray Bright

Version 1.0

Revision Date 07.02.2014

Print Date 12.02.2014

AE / EN

Date of last issue: -

Date of first issue: -

1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name : Würth Zinc Spray Hell

Product code : 0893 114112

MSDS-Identcode : 10043320

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

Use of the Substance/Mixture : Solvent-borne coatings

1.3 Details of the supplier of the safety data sheetCompany : Würth Gulf Fze
POBox 17036
Dubai
Utd.Arab Emir.
E-mail address: wurthglf@emirates.net.ae

Telephone : +9714 8834229

Telefax : +9714 8834303

Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone numberEmergency telephone Advisory office in case of poisoning
+9714 8834229Telephone number of the company in case of emergencies
+97150 5646023

2. Hazards identification**2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**

Extremely flammable

R12: Extremely flammable.

Irritant

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

2.2 Label elementsLabelling according to EC Directives: 1999/45/EC

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Hazard symbols



Extremely
flammable

Irritant

R-phrase(s)

: R12
R36
R66
R67
Extremely flammable.
Irritating to eyes.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

S-phrase(s)

: S 9
S23
S26
S33
S36
S51
S60
Keep container in a well-ventilated place.
Do not breathe spray.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Take precautionary measures against static discharges.
Wear suitable protective clothing.
Use only in well-ventilated areas.
This material and its container must be disposed of as hazardous waste.

Special labelling of certain mixtures

: Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking.
Keep out of the reach of children.

2.3 Other hazards

no data available

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
acetone	67-64-1	F; R11	Flam. Liq. 2; H225	>= 25 - < 35

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	200-662-2	Xi; R36 R66 R67	Eye Irrit. 2; H319 STOT SE 3; H336	
n-butyl acetate	123-86-4	R10	Flam. Liq. 3; H226 STOT SE 3; H336	>= 25 - < 35
	204-658-1	R66 R67		
propane	74-98-6	F+; R12	Flam. Gas 1; H220	>= 20 - < 25
	200-827-9			
butane	106-97-8	F+; R12	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	>= 15 - < 20
	203-448-7			

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

- General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If unconscious place in recovery position and seek medical advice.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

no data available

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4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam, Dry powder, Carbon dioxide (CO₂), Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

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Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Do not flush with water. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Limit the stocks at work place. Handle and open container with care. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.

Dust explosion class : not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in an area equipped with solvent resistant flooring. Please observe the storage instructions for aerosols!

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing and self-igniting products.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

no data available

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8. Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Control parameters	Basis	Update
acetone	67-64-1	TWA: 1.210 mg/m ³ , 500 ppm	2000/39/EC	2000-06-16

Other information on limit values: see chapter 16

8.2 Exposure controls**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Product contains low-boiling liquids. Respiratory protective equipment must be air supplied respirators.

Hand protection

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection

: Tightly fitting safety goggles

Skin and body protection: Flame retardant antistatic protective clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice

: Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Appearance : aerosol
Propellant : butane, propane
Colour : in accordance with the product description
Odour : solvent-like
Odour Threshold : no data available
Flash point : no data available
Ignition temperature : 540 °C

Thermal decomposition : no data available

Lower explosion limit : 2,4 %(V)

Upper explosion limit : 12,9 %(V)

Explosive properties : Not explosive
In use, may form flammable/explosive vapour-air mixture.

Flammability : no data available
Oxidizing properties : no data available
Auto-ignition temperature : no data available
Burning number : no data available
Molecular weight : no data available
pH : not applicable
Solidification / Setting point : not applicable

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Boiling point/boiling range : not applicable
Vapour pressure : 5.200 hPa at 20 °C

Density : 0,72 - 0,76 g/cm³ at 20 °C

Bulk density : no data available
Water solubility : partly miscible

Partition coefficient: n-
octanol/water : no data available
Solubility in other solvents : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Flow time : no data available
Impact sensitivity : no data available
Relative vapour density : no data available
Surface tension : no data available
Evaporation rate : no data available
Minimum ignition energy : no data available
Acid number : no data available
Refraction index : no data available
Miscibility in water : no data available
Solvent separation test : no data available

9.2 Other information

None known.

10. Stability and reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.
Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

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Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

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

acetone : LD50 Rat, female: 5.800 mg/kg

n-butyl acetate : LD50 Rat: > 10.760 mg/kg

Acute inhalation toxicity:

acetone : LC50 Rat, female: 76 mg/l
Test atmosphere: vapour
Exposure time: 4 h

n-butyl acetate : LD50 Rabbit: 14.112 mg/l
Exposure time: 24 h

butane : LC50 Rat: 658 mg/l
Exposure time: 4 h

Acute dermal toxicity:

acetone : LD50 Rabbit, male and female: > 7.426 mg/kg

Acute toxicity (other routes of administration):

no data available

Skin corrosion/irritation

Skin irritation : Prolonged skin contact may defat the skin and produce dermatitis.

Serious eye damage/eye irritation

acetone : Species: Rabbit
Irritation to eyes, reversing after 7 to 21 days.

Respiratory or skin sensitisation

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Sensitisation:

acetone : Test Method: Maximisation Test (GPMT)
Species: Guinea pig
Result: Does not cause skin sensitisation.

Germ cell mutagenicityGenotoxicity in vitro:

acetone : Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Test species: Salmonella typhimurium
with and without metabolic activation
Result: negative

Genotoxicity in vivo:

acetone : Type: In vivo micronucleus test
Test species: Mouse
Sex: male and female
Application Route: Oral
Result: negative

Carcinogenicity

Remarks

acetone : Carcinogenicity:
Animal testing did not show any carcinogenic effects.

Mutagenicity:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity

acetone : Note: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

Teratogenicity

no data available

STOT - single exposure

acetone : May cause drowsiness or dizziness.

n-butyl acetate : May cause drowsiness or dizziness.

STOT - repeated exposure

no data available

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Aspiration hazardAspiration toxicity

no data available

Neurological effects

no data available

Toxicology AssessmentToxicology, Metabolism, Distribution

no data available

Acute effects

no data available

Further information

: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Vapours may cause drowsiness and dizziness.

12. Ecological information**12.1 Toxicity**Toxicity to fish

acetone : LC50 (Pimephales promelas (fathead minnow)): 6.210 - 8.120 mg/l
Exposure time: 96 h

n-butyl acetate : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

acetone : EC50 (Daphnia pulex (Water flea)): 8.800 mg/l
Exposure time: 48 h

n-butyl acetate : EC50 (Daphnia): 44 mg/l
Exposure time: 48 h

Toxicity to algae

acetone : NOEC (Microcystis aeruginosa): 530 mg/l
Exposure time: 8 d

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n-butyl acetate : ErC50 (Desmodesmus subspicatus (green algae)): 648 mg/l
Exposure time: 72 h

Toxicity to bacteria

acetone : EC50 : 61,15 mg/l
Exposure time: 30 min
Test Method: Respiration inhibition of activated sludge
Method: ISO 8192

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

acetone : NOEC: 1.106 - 2.212 mg/l
Exposure time: 28 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Biodegradability

acetone : Result: Readily biodegradable.
Biodegradation: 90,9 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.
We have no quantitative data concerning the ecological effects of this product.

13. Disposal considerations**13.1 Waste treatment methods**

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Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. This material and its container must be disposed of as hazardous waste.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
150110, packaging containing residues of or contaminated by dangerous substances

Waste key (used product):
150110, packaging containing residues of or contaminated by dangerous substances

Disposal of uncleaned packaging : Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Please ensure aerosol cans are sprayed completely empty (including propellant) Containers that have not been emptied in compliance with regulations are regarded as hazardous waste. Dispose of as unused product.

14. Transport information**14.1 UN number**

ADR : 1950
RID : 1950
IMDG : 1950
IATA : 1950

14.2 Proper shipping name

ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR

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Classification Code : 5F
Labels : 2.1
Limited quantity : 1,00 L
Tunnel restriction code : (D)

RID

Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1
Limited quantity : 1,00 L

IMDG

Labels : 2.1
EmS Number : F-D, S-U

IATA

Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Labels : 2.1

14.5 Environmental hazards**ADR**

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

see chapter: 6, 7 and 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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

Directive (96/82/EC)	: Update: 2003	Quantity 1	Quantity 2
	Extremely flammable	10 t	50 t

National legislation

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Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.

Further information : Reserved for industrial and professional use.

15.2 Chemical Safety Assessment

no data available

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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