INDEX

1) COMPANY PROFILE

2) TRADE LICENS

3) TDS

4) MSDS

5) ISO

6) QUALITY

7) Country of Origin

WÜRTH

WÜRTH GULF SUBMITTAL

Rost-Off PLUS

Art. No. 0890200004

Content: 400 ml



Würth Gulf

Is part of The Würth Group. We are the supplier of Fasteners, Automotive Chemicals, Hand Tools & Electrical Supplies also Construction, Assembly Items, Sealants, Power Tools & Safety Solutions.
Established in 2000, Würth Gulf FZE is one of the leading suppliers in the Middle-East. Existing industrial companies and developing organizations alike can benefit from the uparalleled selection, quality and unbeatable service that is synonymous with the Würth brand.



OUR VISION

Becoming the number 1 in the eyes of
our customers as the best and most qualified sales team.

OUR MISSION

We love selling.
We inspire our customers.

OUR PRINCIPLES

We request and promote achievements.
The greater the success, the more freedom and liberty.
We are optimistic, dynamic and have powers of self-assertion.
We passionately fight for success.
We consistently pursue everything that has proven
to be successful, and we try out new things.
We strive for perfection in every area of our activities.
We assume responsibility for our actions, work in mutual
respect and appreciation and are straightforward and
predictable in everything we do.
The term we consider most important in dealing with each other is
"Thank You".

WE SERVE THE FOLLOWING MARKET SECTOR:

- Auto Workshops
- Construction Companies
- Industrial Companies
- Metal and Fabrication
- Maintenance and Repair Shops
- Oil and Gas Sector
- And all other Manufacturing Sectors.

OUR PRODUCT RANGE

- Automotive/Cargo Accessories and Spare Parts
- Chemical Technical Products
- Concrete Anchors and Fixings
- Construction Accessories
- Electrical
- Fasteners/Fittings
- Fire Protection Systems
- General Tools/Equipment
- Hand and Power Tools
- Lubricants and Degreasers
- Master ® Power Tools
- Material Processing
- Orsy® Assortments and Workshop Equipment
- Personal Protective Equipment (PPE)
- Sanitary
- Sealants and Adhesives
- Service and Systems
- Workshop/Garage Equipment



Over 3 million customers

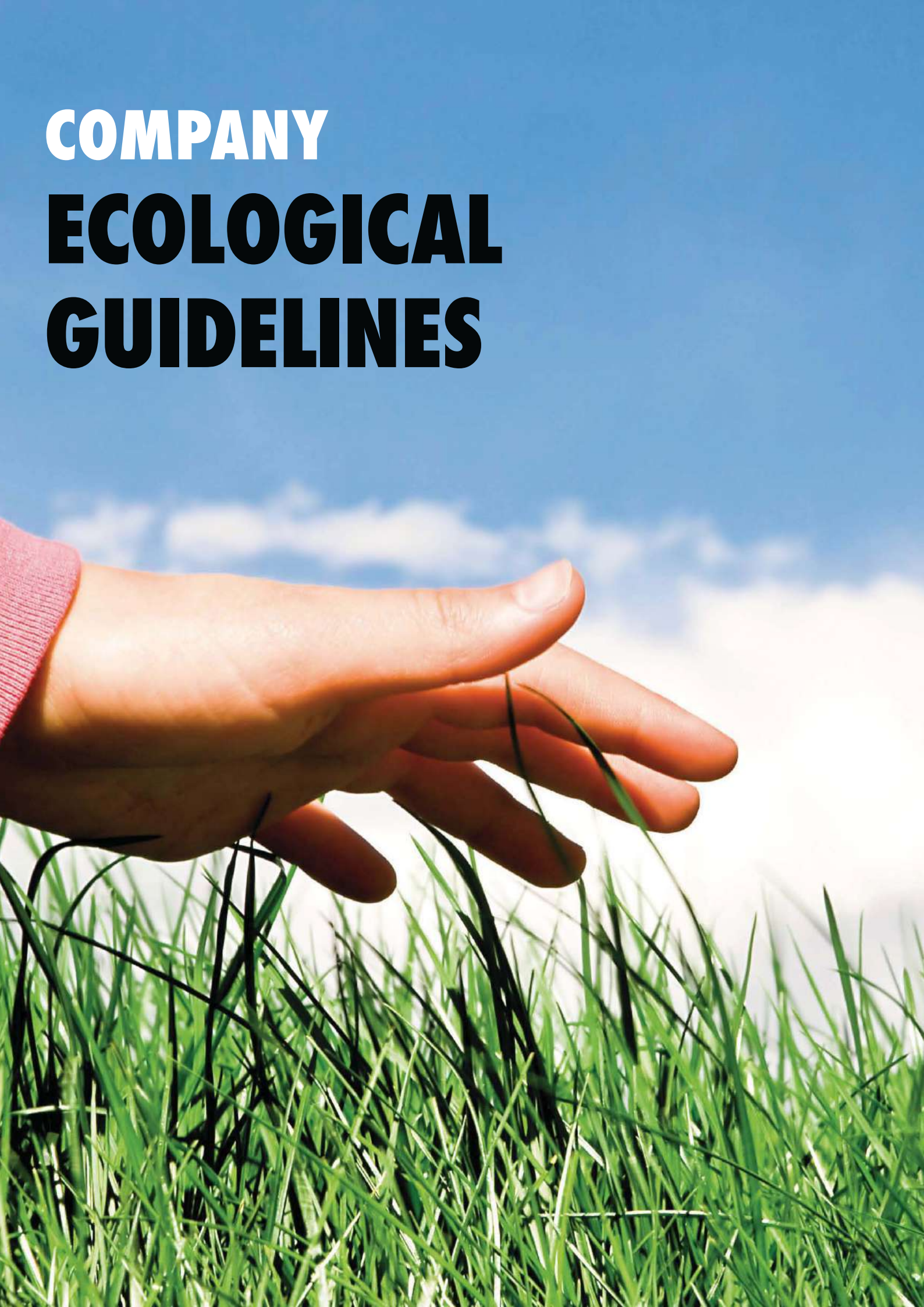
Worldwide, there are over 400 Würth companies in more than 80 countries and more than 70,000 employees on its payroll. This guarantee our customers can rely on our high quality, excellent service and innovative products.

To each customer Würth allocates our Sales Consultant, who is strongly focused on the individual needs of the client. We have adopted this attitude to benefit you, the customer. Our daily commitment helps us to find new approaches so that we always improve. We aim to supply every customer with every article at any time in any place. We therefore have developed modular systems and logistics tailored to the individual needs of the customers. In October 2009, we won the German Logistics Award for this concept.

Our philosophy

We owe it to Prof.Reinhold Würth that the Würth Group has a clear business orientation: It is marked by a strong brand policy, future-oriented product strategy, closeness to the customer, clear quality offensive, thinking in terms of visions and not least by a strong corporate culture. Bettina Würth, Prof.Reinhold Würth's daughter and Chairwoman of the Advisory Board together with the members of the Central Managing Board see to it that these values are filled with life and developed further.

COMPANY ECOLOGICAL GUIDELINES



Company ecological guidelines

Adolf Würth GmbH & Co. KG has integrated environmental protection into its company philosophy as a main pillar and has been certified in the area of environmental management in accordance with DIN EN ISO 14001 since 1996. The company philosophy includes a clear commitment to environmental protection which is expressed in the preamble as follows.

Adolf Würth GmbH & Co. KG strictly adheres to the law in all the states of Germany and is obligated to comply with the principles of the social market economy and the health of people and the environment. We also strive to continually improve our company's environmental protection practices.

Our commitment to environmental protection has yielded the following five company ecological guidelines:

- **Actively work to protect health and the environment in all areas** of our doing and to use this for standing out against competition.
- **Expansion of ecological Würth products and service strategies** with the goal of offering our customers the best health protection modern technology can offer.
- **Acceleration of the development of new ideas for the safety and health** of people and the environment.
- **Motivation of our employees to deal in an environmentally conscious way** at the workplace and privately through information and training.
- **When selecting our product ranges and suppliers,** we ensure that the manufacture, use and consumption of products cause as little harm to the environment as possible by using state-of-the-art technologies.

Environmentally responsible product portfolio

The ecologically minded product and service strategies of Adolf Würth GmbH & Co. KG (AW KG) benefit customers and protect the environment from additional pollution.

For its service to environmental protection, AW KG was recognized at the 1998 "Environment Award for Companies" ceremony in the state of Baden-Württemberg.

In 2009, AW KG received the environmental technology prize from the state of Baden-Württemberg in the "material efficiency" category for the VKP Trio Sealing Tape.

Ecological product lines and application solutions

- ECOLINE
- WÜRTH isi!! – Online hazardous material management
- REFILLO®MAT



Goals of environmental management

Protection of the environment has long been a constituent part of Adolf Würth GmbH & Co. KG and includes the following tasks:

- Specification and implementation of a location-based environmental policy, environmental program and environmental goals.
- Systematic and objective regular assessment of the performance of these instruments.
- Provision of information on internal environmental protection for the company, the public and especially for our customers.

Environmental challenges for the future

- Environmentally minded product range creation
- Minimization of environmental risks
- Waste avoidance
- Responsible handling of natural resources



Bianca Gilsdorf
Environment management

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Reinhold-Würth-Straße 12–17
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Fax: +49 7940 15-4512
bianca.gilsdorf@wuerth.com

TECHNICAL
SUPPLIER QUALIFICATION

Würth seeks out the best suppliers in the world!

Würth's high demand for quality is placed at the very beginning of our supply chain with our global partners. In addition to process and product quality, the factors of delivery dependability, the environment and social aspects are "on the test rig". Trained auditors with highly comprehensive knowledge about the processes involved in creating new products and services test these products on site. Along with our quantitative and qualitative growth, supplier development activities are continuously being expanded and further developed according to the expectations of our customers.

To ensure an optimum audit process, we have at our disposal a host of customized tools for audits ranging from short half-day audits to supplier-development audits to comprehensive, multi-day audits. These tools are standardized methodically at the largest companies, which means that the results can be compared with and applied at other locations. We offer our knowledge at multi-day lectures and workshops at the Würth Academy.

The goals of supplier development are to ensure quality and environmental obligations, long-term cooperation with partners and reductions in nonconformity costs. What motivates us in supplier development are customers who enthusiastically use their product, purchased for the fairest price, and can rely on "their Würth".









Andreas Dierolf
Quality assurance
and supplier qualification

Adolf Würth GmbH & Co. KG
Reinhold-Würth-Straße 12–17
74653 Künzelsau, Germany

Phone: +49 7940 15-2349
andreas.dierolf@wuerth.com

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Rost-Off PLUS

Art. No. 0890200004

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TRADE LICENSE



حكومة دبي
GOVERNMENT OF DUBAI

DUBAI
للاقتصاد والسياحة
Economy and Tourism

رخصة تجارية
Commercial License

License Details / تفاصيل الرخصة

License No.	572033	رقم الرخصة	
Company Name	WURTH GULF (L L C)	اسم الشركة	وورث جلف (شركة ذات مسئولية محدودة)
Business Name	WURTH GULF (L L C)	الاسم التجاري	وورث جلف (ش ذ م م)
License Category	Dep. of Economic Development	فئة الرخصة	دائرة التنمية الاقتصادية
Legal Type	Limited Liability Company - Single Owner(LLC - SO)	الشكل القانونى	شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م.م)
Expiry Date	05/08/2026	تاريخ الإنتهاء	Issue Date 06/08/2005 تاريخ الإصدار
D&B D-U-N-S ® N	561529749	الرقم العالمى	Main License No. 572033 رقم الرخصة الام
Register No.	1778252	رقم السجل التجارى	DCCI No. 99967 عضوية الغرفة

License Members / الاطراف

رقم الشخص/No.	الإسم / Name	الجنسية / Nationality	الصفة / Role	الحصص / Share
1162256	وورث جلف م م ح WURTH GULF FZE	United Arab Emirates / الامارات	Shares Owner / مالك حصص	100.00%
1070435	جيان لوس مارسيل تيسمار JEAN LUC MARCEL THESMAR	فرنسا / France	Manager / مدير	
1162255	موكانى توفيق احمد موكانى اقبال احمد MOOKANE THAUFEEQUE AHMED MOOKANE IQBAL AHMED	الهند / India	Manager / مدير	

License Activities / أنشطة الرخصة

النشاط	الحالة	Status	Activity
تجارة المواد المقاومة والمانعة لإنتشار الحريق	فعال	Active	Fire Resistant & Retardant Materials Trading
تجارة عامة	فعال	Active	General Trading

Print Date 07/08/2025 20:09 تاريخ الطباعة

Receipt No. رقم الإيصال

الإمـــارات
THE EMIRATES

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي .لمراجعة صحة البيانات الواردة في الرخصة يرجي مسح رمزالاستجابة السريعة

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العنوان / Address

صندوق بريد	17036	P.O. Box	
رقم القطعة	613-767	Parcel ID	
البريد الإلكتروني	mohamed.elsadig@wurth.ae	Email	

محل 02 ملك علي احمد خلفان - بردبي - راس الخور الصناعية الثانية

تليفون	971-4-8834229	Phone No	
فاكس	971-4-8834303	Fax No	
هاتف متحرك	971-50-7098917	Mobile No	

الملاحظات / Remarks

نقل الموقع بتاريخ 5/5/2015

رقم الإيصال Receipt No.

تاريخ الطباعة 20:09 07/08/2025 Print Date

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حكومة دبي
GOVERNMENT OF DUBAI

دبي للاقتصاد والسياحة
Economy and Tourism

شهادة شهر قيد شركة فى السجل التجارى
Commercial Register

تفاصيل القيد / Register Details

رقم القيد	1778252	Register No.	
الاسم التجاري	وورث جلف (شركة ذات مسئولية محدودة)		
الشكل القانونى	شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م.م.)		
تاريخ الإصدار	03/08/2005	Reg. Date	
الرقم العالمي	561529749		

Main Lice. Nr	572033	رقم الرخصة الأم	
Business Name	WURTH GULF (L L C)		
Legal Type	Limited Liability Company - Single Owner(LLC - SO)		
Expiry Date	05/08/2026	تاريخ الإنتهاء	
D&B D-U-N-S ® No.			

تفاصيل راس المال / Capital Details

الإسمى	300,000.00	Nominated	
المدفوع	300,000	Paid	
عدد الأسهم	300	No. of Shares	
العملة	درهم إماراتي	Currency	UAE Dirhams

عنوان الرخصة / License Address

عنوان السجل التجاري / Commerce Address

محل 02 ملك علي احمد خلفان - بردبي - راس الخور الصناعية الثانية

أنشطة السجل / Register Activities

تجارة المواد المقاومة والمانعة لإنتشار الحريق	Fire Resistant & Retardant Materials Trading
تجارة عامة	General Trading

Print Date	07/08/2025	20:09	تاريخ الطباعة	Receipt No.	رقم الإيصال

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الفروع / Branches

رقم الرخصة License No	الاسم التجارى Business Name
961444	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)
1007865	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)
1218999	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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Receipt الرصيد

Receipt Date	**07/08/2025**	**تاريخ الإيصال**	**Receipt No**	**16705333**	**رقم الإيصال**
Business Name	WURTH GULF (L L C)			ورث جلف)ش ذ م م(	**اسم الشخص**
Procedure	Renew License,Modify Location			Renew License,Modify Location	**نوع الاجراء**
P.V.Nr.	**24404931**	**رقم إذن الدفع**	**License Nr.**	**572033**	**رقم الرخصه**
Payment Mode	eGovernment Online Payment			eGovernment Online Payment	**كيفية الدفع**
Amount in Words	Twenty One Thousand Eight Hundred and Fifteen Dirhams			واحد وعشرون الفا وثمانمئة وخمسة عشر درهما	**القيمة بالحروف**

Print Date 07/08/2025 20:09 **تاريخ الطباعة** **Receipt No.** **رقم الإيصال**

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حكومة دبي
GOVERNMENT OF DUBAI

دبي
للاقتصاد والسياحة
Economy and Tourism

عزيزي التاجر،،

يرجى اخذ التعليمات التالية بعين الاعتبار:

1. عدم القيام بتغيير موقع الترخيص والانتقال الى موقع اخر دون الحصول على موافقة الدائرة.

2. ضرورة ان يكون الاسم التجاري المدون على اللافتة مطابق للاسم المدون بالرخصة مع ضرورة كتابته بحجم واحد.

الحرص على أن تكون اللافتة باللغتين العربية والانجليزية و بالشكل التالي:

- يكتب الاسم التجاري باللغة العربية في يمين اللافتة وباللغة الإنجليزية تجاه اليسار.

- يكتب الاسم التجاري باللغة العربية بنفس حجم الاسم المكتوب باللغة الانجليزية

- يكتب الاسم التجاري باللغة العربية أعلى الاسم المكتوب باللغة الانجليزية

3. الحرص على استخراج تصريح للافتات الاضافيه والعلامات التجارية على اللافتة.

4. عدم تظليل الواجهة أكثر من 50%

5. عدم العمل لساعات اضافية بعد الساعة 12:00 بعد منتصف الليل الا بعد استخراج تصريح.

6. عدم اجراء التنزيلات او التصفيات او العروض الخاصه بدون تصريح.

7. عدم اجراء اي تعديل او تغيير بيانات الترخيص الا بعد الرجوع للدائرة.

8. الالتزام بكتابة الاسعار على السلع والبضائع.

9. طباعة ووضع بطاقة حماية المستهلك (كن على حق واعرف حقوقك كمستهلك) في مكان بارز من موقع الدائرة www.consumerrights.ae

10. للمستهلك الحق في الحصول على فاتورة الشراء.

11. الاعلان عن سياسة البيع للمستهلك عبر وسيلة اعلان مناسبة شاملة (لعملية الاسترجاع او الاستبدال او الاصلاح للسلع)

12. عدم الترويج عن منتج عن طريق المندوبين، أو الاتصال أو غير ذلك وعدم البيع بطريقة المناداه

13. استخراج تصريح لمستودعات التخزين الخاصة بالمنشأة المرخصة أو تصريح للمكاتب الإضافية أو الاكشاك.

14. يجب على المطاعم وضع قائمه الطعام باللغتين العربيه والانجليزيه.

15. يجب وضع واعتماد قائمة الاسعار الخاصة بالصالونات الرجالية والنسائية ووضعها في مكان بارز.

16. يجب ان تكون الاسعار المعلنه مشمولة القيمة المضافه 5%

17. يجب عرض الفاتورة بشكل تفصيلي موضحا فيها القيمه الاجماليه للسلع والخدمات وقيمة الضريبه المضافه.

18. عدم القيام بالترويج او البيع او العرض لأية بضائع مقلدة أو مغشوشة.

Dear Merchants,

Kindly take the following instruction into high consideration:

1. It is not allowed to change the location registered in the license to move to another address unless DET approval is obtained.
2. The business name on the signboard must conform to the name mentioned in t license and typed in one size.

The business name must be in both Arabic and English as follows:

- The business name in Arabic must be placed on the right hand side of the signboard whereas the English text on the left hand side.
- The Arabic text must be in same size of the English equivalent
- The Arabic business name must be placed above the English equivalent.

3. A commercial permit must be issued for additional signboards and for placing trademarks on the signboard.
4. Text must not occupy more than 50% of the signboard.
5. Shops operating hours must not exceed 12:00 am unless a permit is issued.
6. Discounts, sales or special offers must not be announces unless a permit is issu
7. It is not allowed to apply any amendments or change the license details unless approved by DET.
8. Prices must be placed on products and goods.
9. The Consumer Protection Card (Be Right and Know Your Consumer Rights) mu be typed and placed visibly above the DET website www.consumerrights.ae
10. Consumers have the right to receive a purchase receipt.
11. Announce the sale policy to consumer through suitable applicable channels (t clarify procedures for goods replacement, repair and refund).
12. It is not allowed to promote products through agents, telephone calls, or othe ways or yelling.
13. Permits must be issued for warehouses of licensed business or additional offi or kiosks.
14. Restaurants must place a menu in both Arabic and English languages.
15. Place an approved price list for services provided by ladies and gentlemen salons at a visible area.
16. The displayed price list should be inclusive of 5% VAT
17. Invoices must clearly reflect the total amount of the purchased goods, service and VAT.
18. Avoid promoting or selling or displaying any counterfeited goods.
19. To protect trade marks, it must be registered by the Ministry of Economy.
20. The Department of Economy & Tourism in Dubai has the right to suspend or

رقم الإيصال **Receipt No.** **تاريخ الطباعة** 20:09 07/08/2025 **Print Date**

الإمارات
THE EMIRATES

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شهادة تسجيل العضوية
Membership Certificate

License no.	572033	572033	رقم الرخصة
Membership no.	99967	99967	رقم العضوية
Registration no.	1778252	1778252	رقم السجل التجاري
Business Name	WURTH GULF (L L C)	وورث جلف (ش ذ م م)	الاسم التجاري
Legal Status	Limited Liability Company - Sing	شركة ذات مسؤولية محدودة - الشخص	الشكل القانوني
Activity	Fire Resistant & Retardant Materials Trading General Trading	تجارة المواد المقاومة والمانعة لإنتشار الحريق تجارة عامة	نوع النشاط
Member Since	06/08/2005	06/08/2005	تاريخ الإنتساب
Date of Issue	06/08/2005	06/08/2005	تاريخ الإصدار
Expiry Date	05/08/2026	05/08/2026	تاريخ الإنتهاء

Remarks

This certificate shall be invalid incase of any alteration without chamber's authorization

For online verification of this Certificate, please visit our website http://www.dubaichamber.ae/verify

الملاحظات

تعتبر هذه الشهادة لاغية في حال أي كشط أو تعديل عليها دون اعتماد ذلك من الغرفة

للتأكد من صحة بيانات الشهادة يرجى الرجوع إلى موقع الغرفة http://www.dubaichamber.ae/verify

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Dubai Chamber of Commerce & Industry

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Fax (+971) 4 2211646 فاكس | customercare@dubaichamber.ae | www.dubaichamber.ae

WÜRTH GULF SUBMITTAL

Rost-Off PLUS

Art. No. 0890200004

Content: 400 ml

TECHNICAL DATA SHEET



Rust remover Rost-Off Plus



High-quality rust remover, lubricating effect — owing to the latest additive technology (OMC $_2$ technology)

High capillary activity
Optimum creeping properties ensure outstanding rust pene-tration and extensive rust removal

Contains liquid, highly effective, organic molyb-denum compound OMC_2

- In contrast to products which contain solid lubricants, such as MOS_2, OMC_2 does not precipitate out in larger containers
- Friction is reduced
- Excellent lubricating effect by smoothing the metal surface
- Ensures permanent smooth running of connections

Corrosion protection additives for optimum protection
Provides lasting protection against further corrosion

Resin and acid-free

Silicone-free

Compatible with rubber and plastic

Chemical basis	Mineral oil

Contents	Container	Art. no.	P. Qty.
5 l	Canister	**0890 300**	1
20 l	Canister	**0890 300 1**	1
400 ml	Aerosol can	**0890 200 004**	1/12

Details/Application

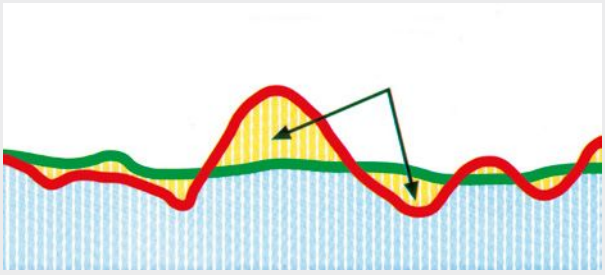
For loosening extremely rusty and oxidised threaded assemblies on cars, trucks, agricultural and construction machinery, aggre-gates, and devices.

can be pain over after the reaction time approx 2 h

Full painting for the surface after 48 h

CL01_3008050106, Rev: 0.369, State: 01. 11. 2023

OMC_2 technology:
From a microscopic standpoint, all metal surfaces are rough and subject to constant wearing and loss of substance when exposed to friction. OMC_2 additives smooth the metal surfaces via a thermoplastic flow deformation by metallorganic connections. The flow deformation is regulated individually, in accordance with the respective loading of the metal surface.
Improved surface quality thanks to metal surface sealant
Improved lubricating film
Reduced thermal loading
Decreased friction (up to 50 % in mixed friction area)
Reduced substance loss
Reduced wear
Longer service life



1. Smoothed surface

2. Original surface

3. Areas of plastic smoothing



Instructions

Spray the parts to be treated and allow to work briefly. For stubborn connections, repeat the application process and extend the working time where necessary.

Notice

- Immediately remove excess material or splashes on sensitive and painted surfaces.
- Resin- and acid-free
- Silicone-free

The usage instructions are recommendations based on the tests we have conducted and our experience; carry out your own tests before each application. Due to the large number of applications and storage and processing conditions, we do not assume any liability for a specific application result. Insofar as our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee consistent quality of our products. We reserve the right to make technical changes and further develop products.

CL01_3008050106, Rev: 0.369, State: 01. 11. 2023

Related products	Art. no.
REFILLO®mat filling can	**0891 881 2**

Related products for	Designation	Art. no.
0890 300	Filling system REFILLO®	**0891 800 2**
	Tap DN 45 thread for 5 l and 10 l plastic canisters	**0891 302 01**
	Empty container with spray gun Rost Off Plus	**0891 502 005**
	Compressed-air filling station Refillo® combi	**0891 800 001**
0890 300 1	Filling system REFILLO®	**0891 800 2**
	Empty container with spray gun Rost Off Plus	**0891 502 005**
	Canister coating ORSY®protec	**0891 870 77**

CL01_3008050106, Rev: 0.369, State: 01. 11. 2023

WÜRTH GULF SUBMITTAL

Rost-Off PLUS

Art. No. 0890200004

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 Date of last issue: - Date of first issue: -	Print Date 12.02.2014	AE / EN

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 sheet

Company	:	Wurth 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 number

Emergency telephone Advisory office in case of poisoning
+9714 8834229

Telephone 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 elements

Labelling according to EC Directives: 1999/45/EC

Hazard symbols :



Extremely flammable



Irritant

R-phrase(s) :

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

S-phrase(s) :

S 9	Keep container in a well-ventilated place.
S23	Do not breathe spray.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33	Take precautionary measures against static discharges.
S36	Wear suitable protective clothing.
S51	Use only in well-ventilated areas.
S60	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. / EC-No. / Registration number	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
acetone	67-64-1	F; R11	Flam. Liq. 2; H225	>= 25 - < 35

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

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

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

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

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Control parameters	Basis	Update
acetone	67-64-1	TWA: 1.210 mg/m3, 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.

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

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

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

Sensitisation:

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

Germ cell mutagenicity

Genotoxicity 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

Aspiration hazard

Aspiration toxicity

no data available

Neurological effects

no data available

Toxicology Assessment

Toxicology, 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

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

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

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 Extremely flammable	Quantity 1 10 t	Quantity 2 50 t

National legislation

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.

Prepared by : SAP Business Compliance Services GmbH
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Ref.: WIAG00004673

WÜRTH GULF SUBMITTAL

Rost-Off PLUS

Art. No. 0890200004

Content: 400 ml

ISO 14001:2004
ISO 9001:2008



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

Certificate Registration No.: **12 100 23791 TMS** / Order No.: **70020920**

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that the organization

WÜRTH

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

for the scope

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement and vehicle conversion or installation of storage systems including load securing in vehicles as well

including the sites see enclosure

has established and applies a Quality Management System.

An audit was performed and has furnished proof
that the requirements according to

DIN EN ISO 9001:2015

are fulfilled.

The certificate is valid from **2024-04-10** until **2027-04-09**.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

ENCLOSURE OF CERTIFICATE

Certificate Registration No.: **12 100 23791 TMS** / Order No.: **70020920**

certificate holder:

Adolf Würth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau
Germany

at the sites	**scope**
Adolf Würth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau Germany	Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement.
Adolf Würth GmbH & Co. KG **Fahrzeugeinrichtungen** Am Seebach 2 74182 Obersulm-Willsbach Germany	Vehicle conversion or installation of storage systems including load securing in vehicles.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

MS/01-07/2023

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

Certificate Registration No.: **12 104 23791 TMS** / Order No.: **70020920**

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that the organization

WÜRTH

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

for the scope

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement

has established and applies an Environmental Management System.

An audit was performed and has furnished proof
that the requirements according to

DIN EN ISO 14001:2015

are fulfilled.

The certificate is valid from **2024-05-24** until **2027-05-23**.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

IAF MLA DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

MS/01-07/2023

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

has established and applies
an Energy Management System for

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Installation of storage systems including load securing in automotive vehicles. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement.

An audit was performed, Order No. **70020920**.

Proof has been furnished that the requirements
according to

ISO 50001:2018

are fulfilled.

The certificate is valid in conjunction
with the main certificate from **2022-10-04** until **2025-10-03**.

Certificate Registration No.: **12 340 23791/01 TMS**.

Head of Certification Body
Munich, 2022-10-05

DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

MS/01-01/2019

WÜRTH

WÜRTH IS QUALITY

Everywhere and every time



PREFACE

Ladies and Gentlemen, dear customers,

In practice, the quality of a product or service is measured by the degree to which customers' expectations are fulfilled.
Prof. Dr. h. c. mult. Reinhold Würth, Chairman of the Supervisory Board of the Würth Group's Family Trusts, goes one step further by setting this goal: "We have to inspire our customers in every way."

All our employees are well aware how important it is to reliably fulfill customers' wishes – your wishes and your orders – day in and day out.

This is why Würth's vision for quality is:

WÜRTH IS QUALITY
everywhere & every time

By providing quality products and services, we want to "take the load off your back", and we also want to give you the opportunity to increase your productivity and efficiency through innovative solutions.
This enables you to focus on your customers' needs, thereby increasing your success.

To assure you that the quality is there, we make no compromises, especially when it comes to selecting suppliers and when testing and approving Würth products. Würth strives for optimum quality in every market segment. Before we include products in our sales line, it is subjected to fatigue tests at our testing laboratory for days and sometimes even weeks under real-life conditions. In fact, most testing is carried out under tougher conditions that are seen in practice.

Würth operates a worldwide network of testing laboratories with first-rate equipment and a well-trained, motivated team of quality managers who act locally and globally to guarantee our quality standards.

Würth also works together with external testing laboratories where practicable to enable a third party to confirm the fulfillment of your specifications, national and international standards and Würth's own specifications.

Another focal point of our efforts in the area of quality management is the selection of the most suitable suppliers and their obligation to manufacture products in accordance with our quality standards.

The most environmentally friendly manufacturing of products and the use of appropriate materials are naturally of critical importance to us.

Of course we are also aware that the quality of the business processes of our company are crucial in determining your satisfaction. Our quality management systems are process oriented and the requirements are defined globally for Würth.

The central organ of the Würth Group in matters of quality is the Würth Quality Team (WQT). This team's job is to promote quality consciousness and quality, to point out improvement opportunities and necessities and to continuously support improvement processes. This work is supplemented within the Würth line at the so-called Quality Competence Center and, naturally, by a large number of teams at the individual companies.

In this brochure, we want to provide you with an overview of the instruments and people with whom we are working in the areas of
- Quality and environmental management (pages 3 – 5)
- Supplier qualification (page 6)
- Quality assurance (page 7)
- Testing laboratories in the Würth network (pages 8 – 19)

in order to fully live up to the "Würth is quality – Everywhere and every time" reputation.

Sincerely,



Dr.-Ing. Siegfried Beichter
Head Quality Management Würth Group

QUALITY MANAGEMENT WITH A SYSTEM

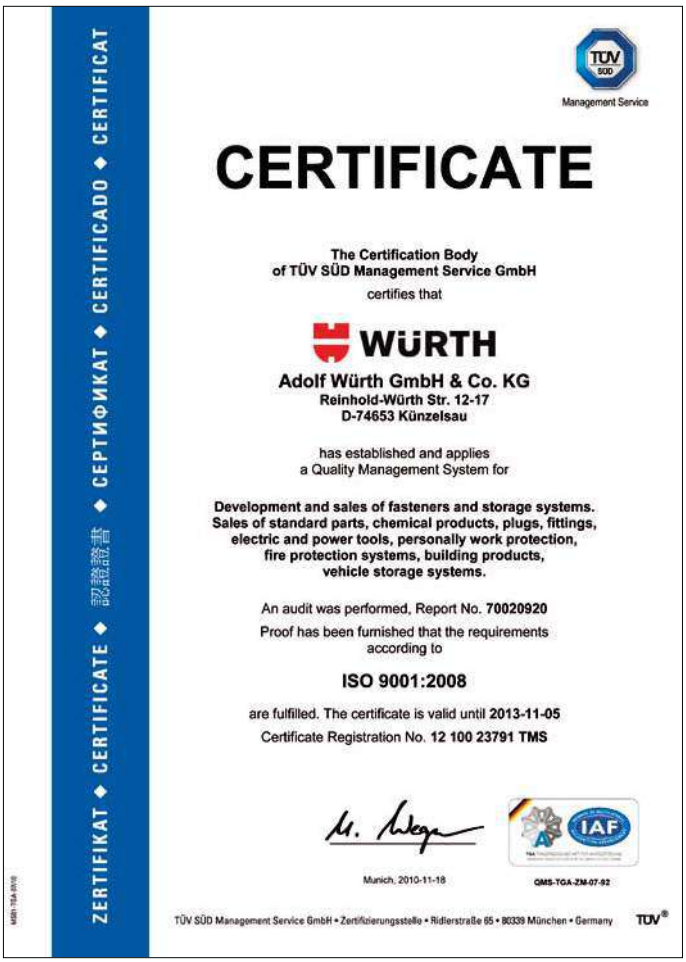
At the parent company of the Würth Group, Adolf Würth GmbH & Co. KG in Künzelsau, we have held an awareness for the demands, questions and problems of our customers as a focal point of our quality philosophy for a long time.

This is why, in 1993, we decided to have our quality-management system certified in accordance with DIN EN ISO 9001 by an external institution, the TÜV Süd certification agency. Using DIN EN ISO 14001, we are forming a process-oriented integrated management system which paves the way for continual improvement of our services.

Important elements of this system include determining customer satisfaction, evaluating effectiveness by the company management, continual improvement of the processes using internal audits, ensuring product quality through systematic and consistent testing, fair evaluation of suppliers, efficient complaint processing for monitoring of our products on the market and our own initiative for continual improvement of work routines to increase customer satisfaction.

The performance of this entire system is tested through monitoring audits carried out annually by TÜV Süd and re-certification audits by independent experts carried out every 3 years. At the last re-certification audit in November of 2010, we verified the conformity of our system with DIN EN ISO 9001:2008. This certification attests to our exceptional customer orientation and very keen quality consciousness.

Our distinct customer orientation was rewarded eventually with the German Customer Champion Award 2010.



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

WÜRTH

Adolf Würth GmbH & Co. KG
Reinhold-Würth Str. 12-17
D-74653 Künzelsau

has established and applies
a Quality Management System for

Development and sales of fasteners and storage systems.
Sales of standard parts, chemical products, plugs, fittings,
electric and power tools, personally work protection,
fire protection systems, building products,
vehicle storage systems.

An audit was performed, Report No. 70020920
Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled. The certificate is valid until 2013-11-05
Certificate Registration No. 12 100 23791 TMS

Munich, 2010-11-18

QMS-TGA-ZM-07-92

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany





Dr.-Ing. Siegfried Beichter
Quality Management Würth Group

Adolf Würth GmbH & Co. KG
Reinhold-Würth-Straße 12–17
74653 Künzelsau, Germany

Phone: +49 7940 15-2680
Fax: +49 7940 15-52680
siegfried.beichter@wuerth.com

PERFORMANCE
OF QUALITY ASSURANCE

Quality beats price – quality assurance at Würth

To assure the customer that the quality is 100% there, we make no compromises when it comes to selecting suppliers and when testing and approving Würth products. Würth demands the best possible product quality in each respective market in order to meet all our customers' demands. They are the ones who decide whether or not a product is good.

Engineers, technicians and masters of their craft work on the following tasks for quality assurance:

- Initial sample testing
- Incoming goods inspection
- Complaint processing
- New product testing



Incoming products are subjected to an incoming goods inspection in accordance with the random sample plan. This is oriented toward DIN ISO 3269 and forms the basis for the scope of the random sample based on the delivery quantity.

The inspections are checked as per specifications of the standard and internal inspection instructions from independent professionals. All inspection equipment used is regularly calibrated.

New products are subjected to special requirement profiles by the quality assurance personnel. If the inspection yields positive results, approval is granted by quality assurance.

An important component of our success is the internal development of innovative products. Here, quality assurance works very closely with the product management and development departments and accompanies development projects through practice-oriented tests and determination of product requirements from the get-go.

The customer is an important part of our continual product-improvement process. All customer complaints are evaluated on a weekly basis. The quality assurance team responds immediately to increases in key figures so that solutions to possible problems can be developed early on.
Typical measures include inventory checks, supplier development, product optimization, 8D reports and the avoidance of usage errors through improved product information while taking the information gleaned from customers into account.



THE LARGEST TESTING LABORATORIES OF THE WÜRTH LINE



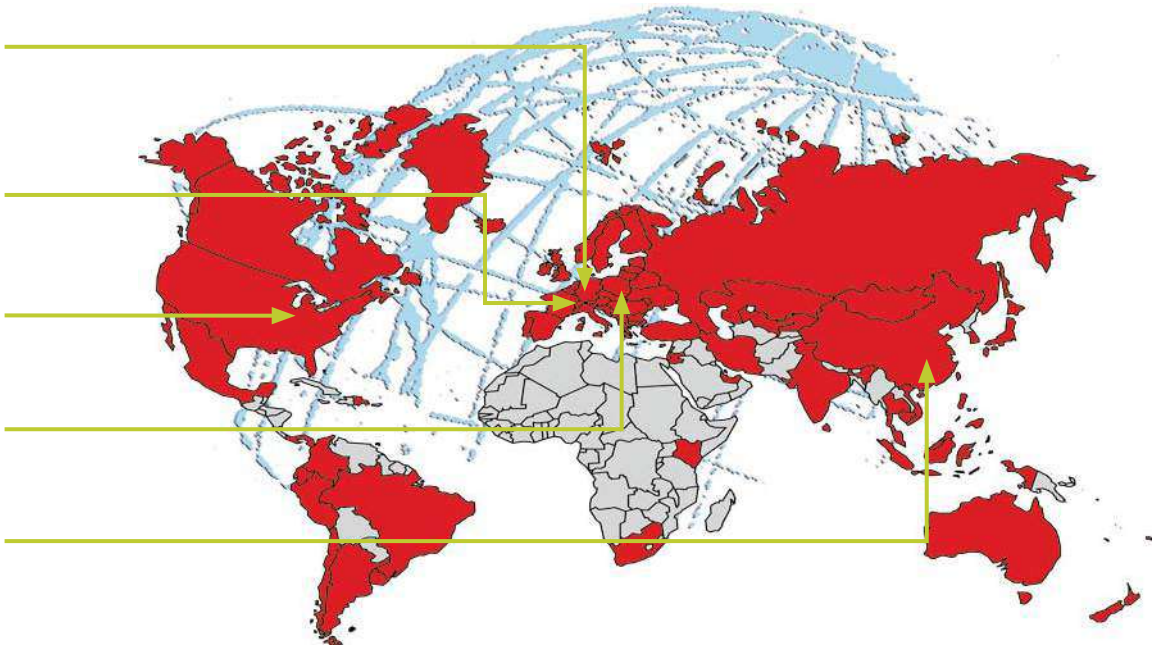
Germany
Künzelsau-Gaisbach,
Bad Mergentheim

Switzerland
Chur

US
Indianapolis

Slovakia
Bratislava

China
Shanghai



= Würth companies worldwide

ACCREDITED WÜRTH TESTING LABORATORY

The growing demands of the global market and our customers have led Adolf Würth GmbH & Co. KG to make the decision to establish an independent material-technical testing laboratory in accordance with the requirements of DIN EN ISO/IEC 17025.

Thanks to the professional competence in materials and anchor technology and the confidential handling of information and protection rights, the laboratory serves as a superordinate testing location within the Würth Group.

Altogether, six employees with over 70 years of combined professional experience and various professional backgrounds, e.g. master mechanics and metal industry tradesmen, structural engineers and chemical engineers, attend to your concerns. This ensures not only high testing quality, but also a professional interpretation of the measurement values.

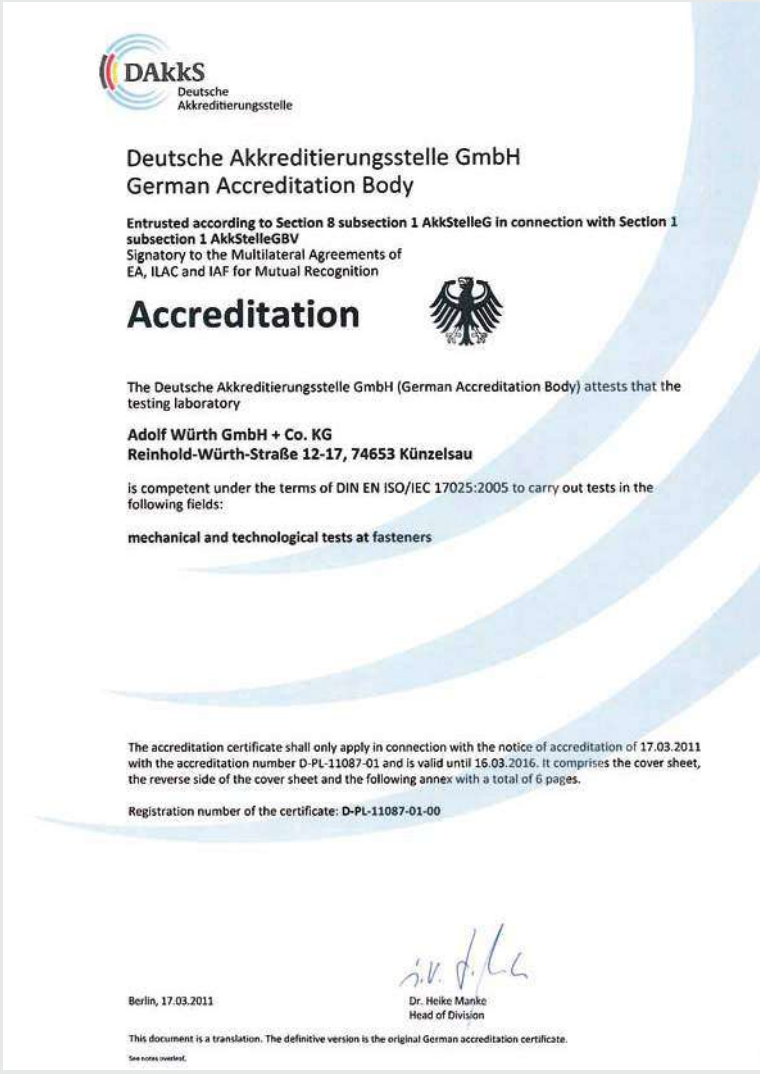
We offer our customers fast and competent processing of their orders. Since the Würth testing laboratory is located at the Künzelsau location, and is therefore close to the central warehouse of Adolf Würth GmbH & Co. KG, quick access to Würth products is possible. This enables us to respond quickly to possible special needs of your order.

Our accreditation certification with appendix can be found on our homepage or directly on the website of the DAkkS under laboratory number D-PL-11087-01-00.

For inquiries or more information on the Würth testing laboratory, we stand ready to assist you.

Jan Kobald
Würth testing laboratory

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11087-01-00



DAkkS Deutsche Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH
German Accreditation Body

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH (German Accreditation Body) attests that the testing laboratory

Adolf Würth GmbH + Co. KG
Reinhold-Würth-Straße 12-17, 74653 Künzelsau

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

mechanical and technological tests at fasteners

The accreditation certificate shall only apply in connection with the notice of accreditation of 17.03.2011 with the accreditation number D-PL-11087-01 and is valid until 16.03.2016. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 6 pages.

Registration number of the certificate: D-PL-11087-01-00

Berlin, 17.03.2011

Dr. Heike Manke
Head of Division

This document is a translation. The definitive version is the original German accreditation certificate.



Hermann Müller
Würth testing laboratory

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Reinhold-Würth-Straße 12–17
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Fax: +49 7940 15-4121
hermann.mueller@wuerth.com



Jan Kobald
Würth testing laboratory

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jan.kobald@wuerth.com

ADOLF WÜRTH GMBH & CO. KG TEST LABORATORY
TESTING OPTIONS (EXCERPT)



Tension testing machine
- Tensile test/compression test of components
- Strength testing of bolts and nuts





Screw-in test (right)
Internal development:
Measurement of the screw-in times of non-self-drilling and self-drilling screws





Vickers hardness tester (right)
Hardness test in accordance with DIN EN ISO 6507
- Determination of edge and core hardness
- Hardness progression curves

Measuring microscope (left)
Contact-less measurement of geometries







Robot test rig
a) Grinding
b) Cutting
c) Hammer drilling

a) Grinding test
- Grinding, flap and fiber disks
- Endurance test
- Material removal/ loss of material on disk
- Time/performance recording

b) Cutting disk test
- Cutting disks from 115 – 230 mm
- Number of seperating cuts/ loss of material on disk

c) Hammer drilling test
- SDS plus, SDS max
- Endurance test
- Drilling time, number of drill holes



Infrared spectroscope
Measuring of product specific spectra
(finger print)





Spark emission spectrometer (left)
Determination of steel composition

Weather simulation cabinet (right)
Accelerated outdoor weather simulation
in accordance with DIN EN ISO 4892-2



Salt-spray chamber

- Salt-spray test in accordance with DIN EN ISO 9227
- Condensate test in accordance with DIN EN ISO 6270-2
- A wide variety of environmental simulations



Dispensing unit (internal development)
System testing of products in cartridges or bags

- Thickenings
- Air inclusions
- Color mixing
- User viscosity





Lamp test rig (left)

- Testing of light lamps and automotive bulbs
- Geometry
- Service-life test
- Luminous flux measurement (lumens)
- Vibration test
- Measurement of the light spectrum and the color-reproduction value

Spectral photometer(right)
Measurement of the color of products such as silicones and paints in the CIELAB color space



X-ray fluorescence spectroscope

- Measurement of the thickness of surface coatings
- Determination of heavy metals in plastics/ metals
- RoHS screening process



Rheometer
Determination of viscosity, flow characteristics of liquids and pasty products



Machine test rig
- Magnetic powder eddy current brake for high torques and high speeds
- Service life testing of machine batteries
- Testing of machine characteristics

Not shown

Occupational safety
- Martindale abrasion test for gloves
- Cut protection test
- Penetration test

Fall testing
- Cardboard
- Shipping boxes
- Hand tools

Cardboard testing
- Box Cardboard Tester (BCT)
- Edge Crush Test (ECT)

Battery testing
- Types: micro (AAA), mignon (AA), baby, mono, 9-Volt block, button cells
- Discharge time and discharge cycles for various load cases, e.g. flash, camera
- Service-life test for rechargeable batteries

Precision measuring system
- 2D shadow measuring system
- Automatic measurement of screw dimensions

Plier testing
Cut test for sheet-metal shears and VDE pliers

Service life test for flashlights

... and lots more

SAMPLE OF SERVICES FROM ADOLF WÜRTH GMBH & CO. KG AT A GLANCE

Dear Customer,
We would be happy to perform testing at your behest. This list is intended to provide you with a small overview of the testing possibilities offered at our testing laboratory. Should you be interested in our offer, we would be happy to advise you. Please contact your sales rep or the contact partner of the accredited Würth testing laboratory.

Tensile test
- Tensile testing on whole and machined test pieces DIN EN ISO 898-1*
- Force test for nuts DIN EN 20898-2*
- Measurement of breaking strength and tear elongation of adhesive tapes DIN EN 14410
- Determination of the tensile shearing strength of high-strength overlapping adhesions DIN EN 1465
- Determination of adhesive strength of adhesive tapes DIN EN 1939
- Determination of tear strength, tensile strength, tear elongation and tension values of rubber/elastomere DIN 53504

Hardness testing
- Surface and core hardness, hardness profiles
- HRC/HRB Brinell
- HV 0.3/1/5/10 DIN EN ISO 6507*
- Decarbonization and carbonization test DIN EN 898-1*
- Edge decarbonization DIN EN 898-5*

Torque
Determination of torques up to 5,000 Nm

Coating thickness test
Measurement of metallic coverings using x-ray fluorescence process*

RoHS screening
Non-destructive testing using x-ray fluorescence process

Dimension testing
- Thread testing, length measurement, geometry*
- Measuring microscope*
- 2D shadow measuring unit

Material analysis
- OES spark emission analysis for high- and low-alloy steels*
- Infrared spectral analysis FT-IR

Environment simulation
- Accelerated outdoor weathering DIN EN 4892-2
- Environmental test DIN EN 60068-8-52
- Corrosion testing in artificial atmosphere – Salt-spray test DIN EN ISO 9227*
- Climate tests -40°C to 180°C at 10 – 98% rel. humidity
- High tempering up to 650°C

Surface testing
- Surface roughness
- Measurement of colors in CIELAB color space
- Visual assessment

Component test
Depending on the customer's requirements, we adjust to their specific equipment and determine the material properties required by architects or stress analysts, for example.

Residual field intensity
Measurement of the field strength e.g. of screws

Fall testing
Fall testing, e.g. of cases, packages DIN EN 22248

Cardboard testing
Measurement with box carton testers up to 30 kN DIN EN ISO 12048
Edge crush resistance 5 kN DIN EN ISO 3037

Battery testing
Capacity, discharging properties and charging properties, from button cells to monocells

Lamp testing
Measurement of the light spectrum and lumens of light bulbs, LEDs and energy-saving lamps

Protective equipment
- Martindale abrasion test
- Cut protection test
- Penetration test

*Testing possible at accredited testing laboratory (DIN EN ISO/IEC 17025)

WÜRTH INTERNATIONAL AG IN CHUR

Würth International AG developed during 50 years into a company with more than 400 employees. Today, central purchasing for the Würth Group is one of the most important mainstays of Würth International AG. In the mid-1990s, central purchasing branches were founded in America and Asia. This enabled Würth International AG to meet its customers' needs even better.

The logistics center in Landquart was brought to life almost at the same time. This facility makes it possible to supply customers quickly and reliably. Our subsidiary in Bratislava (Slovakia) also provides a weighing service for the entire Würth Group. The testing laboratories of Würth central purchasing are located in Switzerland (Landquart), Slovakia (Bratislava) and China (Shanghai).



TESTING LABORATORY IN LANDQUART (SWITZERLAND)

From the very beginning, professionally competent and reliable quality assurance was ensured for the inspection of incoming goods at the logistics center of Würth International AG in Landquart. In addition to the incoming goods inspection, the sampling of new products and complaint processing are some of the main tasks handled by the central purchasing quality assurance personnel.

With the construction of the new warehouse in 2002 and complete redesigning of the testing laboratory in 2011, the laboratory was outfitted with a modern and targeted infrastructure.

In addition to the classic mechanical tests, the testing laboratory also became specialized in the examination of chemical products. Some of the most important testing devices include a 20 kN tension testing machine, a measuring microscope which can record 3D models, various hardness testers (Rockwell, Vickers, Shore), a 2D measuring station, a box column drill for service-life and tool tests, simple breakage torque tests, an x-ray for material analysis of metals and coating measurements, a salt-spray chamber for corrosion-protection tests, an infrared spectrometer for testing chemical substances, a climate cabinet, a rheometer for viscosity measurement and other analytical testing possibilities for the determination of poisonous substances, such as PAKs and chrome 6.







Manuel Hallauer
Quality assurance

Würth International AG
Lagerhaus Landquart
Mühlestrasse 9
7302 LANDQUART, SWITZERLAND

Phone: +41 81 300 6142
Fax: +41 81 558 1775
manuel.hallauer@lagerhaus-landquart.ch

TESTING LABORATORY IN BRATISLAVA (SLOVAKIA)

Würth International Trading s.r.o. in Bratislava is the Würth Group's competent organization for DIN and standard parts.

In addition to trading activities, our colleagues in Bratislava handle a host of logistic services for the Würth Group companies.

Thanks to the use of state-of-the-art equipment and trained personnel, we are able to satisfy the demand for high quality by customers.
All requirements for initial samples and new product and standard testing are fulfilled at the laboratory in Bratislava.



Norbert Cillik
Quality assurance

Würth International Trading s.r.o.
P.O. Box 18
83107 BRATISLAVA 36
SLOVAKIA

Phone: +421 2 4921 1239
Fax: +41 81558 1955
norbert.cillik@wurth-int.com





TESTING LABORATORY IN SHANGHAI (CHINA)

Initial samples from Asian suppliers, in particular, are tested at the testing laboratory in Shanghai. Samples are taken from each delivery and tested to determine whether they meet our high quality standards.

The very well-trained personnel and the laboratory, which is equipped with all the important testing devices (e.g. a tension testing machine, a coating thickness measuring device, a torque test rig and other testing devices) ensures high quality, including that of imports from Asia. This ensures that only faultless products are shipped.



Steven Xu
Quality assurance

Würth International Trading
(Shanghai) Co. Ltd.
Capital of Leaders – Building 9
Zhangdong Road No. 1387
201203 SHANGHAI – P.R. CHINA

Phone: +86 21 5856 9056
Fax: +86 21 5856 9995
steven.xu@wurth-international.com.cn





WÜRTH INDUSTRIE SERVICE GMBH & CO. KG

Würth Industrie Service GmbH & Co. KG was founded on 1/1/99 as a spin-off of the industry division of Adolf Würth GmbH & Co. KG in Bad Mergentheim.

In the area of quality assurance, a well-equipped testing laboratory is available. Both the equipment and personnel of this laboratory are continually invested in. All the required geometric measurement possibilities required for our products, our own means for metallography and a broad spectrum of testing devices are available, for example:

- Hardness tests for metals and plastic
- Small-load hardness test
- Torque test rigs
- Pulling test rig for dimensions up to M80
- Tension testing machine
- X-ray fluorescence spectroscope
- Surface-roughness measuring device
- Measuring microscope
- 3D-coordinate measuring machine
- Contour measuring device
- Optical rotation measurement system
- Impact test bending facility





Optical coordinate measuring machine (3D): Optical 3-coordinate measurement, measurement precision down to 3 µm and serial measurement possible. Contact-less measurement system for determining diameters, radii, angles etc.

Friction coefficient testing machine/torsion testing machine





Initial sample testing

Before we begin the serial supply of our industrial customers, we generate corresponding initial sample test reports at our laboratories on request, for example in accordance with the VDA, PPAP or custom specifications.

Applicable deliveries to Würth Industrie Service GmbH & Co. KG are also ensured using the initial sample process in these cases, whereby our laboratories cross-check the initial sample test reports from suppliers accordingly and make decisions regarding approval.



Dr. Uwe Hasselmann
Technical department

Würth Industrie Service GmbH & Co. KG
Drillberg – Industriepark Würth
97980 Bad Mergentheim, Germany

Phone: +49 7931 91-2678
Fax: +49 7931 91-4273
uwe.hasselmann@wuerth-industrie.com



Part Submission Warrant 7831-00

Part Name: SECHSKANTSCHRAUBE MIT SCHAFT TP.
Shown on Drawing No.: 246340
Engineering Change Level: 02-084
Additional Engineering Changes:
Safety and/or Government Regulation: ☐ Yes ☑ No
Purchase Order No.:
Checking Aid No.:
Checking Aid Engineering Change Level:

ORGANIZATION MANUFACTURING INFORMATION

Würth Industrie Service GmbH + Co.KG /
Supplier Name / Supplier Code
Drillberg
Street Address
Bad Mergentheim 97980 Germany
City Postal Code Country

CUSTOMER SUBMISSIO

☑ Dimensional ☑ Mate
Customer Name/Division
Buyer/Buyer Code
Application

MATERIALS REPORTING

Has customer-required Substances of Concern information been reported? ☑ Yes ☐ No
Submitted by IMDS-ID-Nr.: 173512105 / 2
Are plastic parts identified with appropriate ISO marking codes? ☐ Yes ☑ No

REASON FOR SUBMISSION (Check at least one)

☐ Initial Submission
☐ Engineering Change(s)
☐ Tooling: Transfer, Replacement, Refurbishment, or additional
☐ Correction of Discrepancy
☐ Tooling Inactive > than 1 year
☐ Change to Optional Co
☑ Sub-Supplier or Materia
☐ Change in Part Process
☐ Parts Produced at Add
☐ Other - please specify

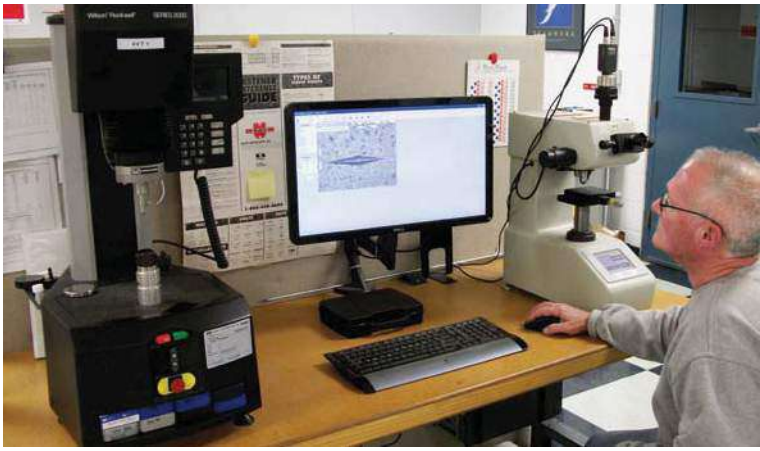
Excerpt from an OEM PPAP form

WÜRTH SERVICE SUPPLY INC. (USA)

Würth Service Supply Inc. in Indianapolis offers industrial customers a broad product range, individualized support and comprehensive technical consultation by applications engineers.

At the quality assurance testing laboratory, a broad spectrum of dimensional testing possibilities and test devices are available for testing mechanical properties such as hardness, tensile and torsion strength, impact testing work and micro-hardness. In addition, a variety of functional tests are carried out in joint development and coordination with our customers.







Stan Davis
Quality assurance

Würth Service Supply Inc.
4935 W. 86th Street
INDIANAPOLIS, IN 46268

Phone: +001 317-704-8603
Fax: +001 317-507-1936
sdavis@servicesupply.com

WÜRTH GULF SUBMITTAL

Rost-Off PLUS

Art. No. 0890200004

Content: 400 ml

Country of Origin



Date : August 31,2023

Country of Origin

We herewith declare under our sole responsibility that:

Item Number	Item Description	Country of Origin
0890 200004	RUST REMOVER ROST-OFF PLUS	switzerland

is manufactured exclusively in our factories in Italy under supervision of our Wurth Quality Control laboratories.

We trust to have been of service with this declaration and remain

With kindest regards,



Product Department

Wurth Gulf FZE-Plot # S61303, Jebel Ali South 6 ,Dubai ,U.A.E - P.O.Box:17036
T: +9714 8809991, 04 8834229(old), **F: +971 4 8809255,** 04 8834303(old), **E: wurthglf@emirates.net.ae - www.wurth.ae**