

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

SECTION 1. IDENTIFICATION

Commercial Product Name : Wurth Film
Product number : 08933300
SDS-Identcode : 10037554
Product Use Description : Corrosion inhibitor
Company : Wurth USA Inc.
93 Grant St.
07446 Ramsey, NJ
USA
Telephone : +1 201 825 27 10
Telefax : +1 201 825 16 43
Responsible/issuing person : prodsafe@wuerth.com
Emergency telephone number : +1 800 255 3924

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable aerosols : Category 1
Gases under pressure : Liquefied gas
Germ cell mutagenicity : Category 1B

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H340 May cause genetic defects.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P281 Use personal protective equipment as required.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
petroleum gas	68476-85-7	>= 20 - < 30
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 10 - < 20
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>= 5 - < 10
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	>= 5 - < 10
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 5 - < 10
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7	>= 5 - < 10
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	>= 5 - < 10
Residual oils (petroleum), solvent-refined	64742-01-4	>= 5 - < 10
Residual oils (petroleum), solvent-dewaxed	64742-62-7	>= 5 - < 10
baseoil - unspecified	64742-57-0	>= 5 - < 10
Calcium carbonate	471-34-1	>= 1 - < 5
petrolatum	8009-03-8	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

Safety Data Sheet

Würth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

- General advice : If you feel unwell, seek medical advice (show the label where possible). Take off contaminated clothing and shoes immediately. Never give anything by mouth to an unconscious person.
- Inhalation : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary.
- Skin contact : Wash off with soap and water. Remove contaminated clothing. If irritation develops, get medical attention. Wash contaminated clothing before reuse.
- Eye contact : 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.
- Ingestion : If swallowed, DO NOT induce vomiting. If symptoms persist, call a physician. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

- Treatment : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- Form : Aerosol containing a liquefied gas
- Flash point : 150 °C (302 °F)
- Suitable extinguishing media : Alcohol-resistant foam
Water mist
Carbon dioxide (CO₂)
Dry chemical
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Exposure to decomposition products may be a hazard to health.
Hazardous decomposition products may be formed under fire conditions (see section 10).
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Safety Data Sheet

Würth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapour or mist.
- 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.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE**Handling**

- Handling : For personal protection see section 8.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

Use only in well-ventilated areas.
 Limit the stocks at work place.
 Do not spray on a naked flame or any incandescent material.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
 Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers : 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.
 Please observe the storage instructions for aerosols!

Advice on common storage : Incompatible with oxidizing agents.
 Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
petroleum gas	68476-85-7	NIOSH REL	TWA	1,000 ppm 1,800 mg/m3	2013-10-08
		OSHA Z-1	TWA	1,000 ppm 1,800 mg/m3	2007-01-01
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	OSHA P0	TWA	5 mg/m3	1989-01-19
		ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08

Safety Data Sheet

Würth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2005-09-01
		NIOSH REL	ST	10 mg/m3	2005-09-01
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	ACGIH	TWA	5 mg/m3	2013-03-01
Residual oils (petroleum), solvent-refined	64742-01-4	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
Residual oils (petroleum), solvent-dewaxed	64742-62-7	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
baseoil - unspecified	64742-57-0	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
Calcium carbonate	471-34-1	NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	TWA	10 mg/m3	2013-10-08
petrolatum	8009-03-8	OSHA Z-1	TWA	5 mg/m3	2011-07-01
		ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08

Engineering measures : Provide adequate ventilation.

Eye protection : In case of splash hazard, please wear protective goggles.

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

Hand protection

Glove material : Neoprene
Nitrile rubber

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.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

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.
Wash contaminated clothing before re-use.**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Form : Aerosol containing a liquefied gas
Physical state : aerosolColour : No data available
Odour : hydrocarbon-like
Odour Threshold : No data available
Flash point : 150 °C (302 °F)Ignition temperature : No data available
Thermal decomposition : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available

Safety Data Sheet

Würth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

Flammability	: Extremely flammable aerosol.
Molecular weight	: No data available
pH	: Not applicable
Boiling point/boiling range	: No data available
Vapour pressure	: No data available
Relative vapour density	: >1 (Air = 1.0)
Evaporation rate	: No data available
Density	: 0.97 g/cm ³ at 20 °C (68 °F)
Relative density	: No data available
Bulk density	: No data available
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 14 mm ² /s at 40 °C (104 °F)
Volatile organic compounds (VOC) content	: 24.7 %

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid	: Strong oxidizing agents
Hazardous decomposition products	: Carbon monoxide Carbon dioxide (CO ₂) Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
Hazardous reactions	: Note: No decomposition if stored and applied as directed. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Safety Data Sheet

Würth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity : No data is available on the product itself.
Reproductive toxicity : No data is available on the product itself.
Teratogenicity : No data is available on the product itself.

Component:

petroleum gas	68476-85-7	<u>Carcinogenicity:</u> Human carcinogen. <u>Mutagenicity:</u> In vivo tests showed mutagenic effects
baseoil - unspecified	64742-57-0	<u>Acute oral toxicity:</u> LD50 Rat Dose: > 5,000 mg/kg Method: OECD Test Guideline 401 <u>Acute dermal toxicity:</u> LD50 Rabbit Dose: > 2,000 mg/kg Method: OECD Test Guideline 402 <u>Skin irritation:</u> Rabbit Result: No skin irritation <u>Eye irritation:</u> Rabbit Result: No eye irritation Method: OECD Test Guideline 405 <u>Carcinogenicity:</u> Animal testing did not show any carcinogenic effects. <u>Mutagenicity:</u> In vivo tests did not show mutagenic effects <u>Reproductive toxicity:</u> No toxicity to reproduction
Calcium carbonate	471-34-1	<u>Acute oral toxicity:</u> LD50 Rat Dose: > 2,000 mg/kg Method: OECD Test Guideline 420 <u>Acute dermal toxicity:</u> LD50 Rat Dose: > 2,000 mg/kg Method: OECD Test Guideline 402 <u>Acute inhalation toxicity:</u> Rat Dose: > 3 mg/l Exposure time: 4 h Method: OECD Test Guideline 403 <u>Skin irritation:</u> Rabbit Result: No skin irritation Method: OECD Test Guideline 404 <u>Eye irritation:</u> Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

Carcinogenicity:**ACGIH**Distillates (petroleum),
solvent-refined heavy
paraffinic

64741-88-4

OSHANo component of this product present at levels greater
than or equal to 0.1% is identified as a carcinogen or
potential carcinogen by OSHA.**NTP**

petroleum gas

68476-85-7

IARC

petroleum gas

68476-85-7

SECTION 12. ECOLOGICAL INFORMATIONVolatile organic
compounds (VOC)
content : 24.7 %Additional ecological
information : The product should not be allowed to enter drains, water
courses or the soil.**Component:**

baseoil - unspecified

64742-57-0

Toxicity to fish:

LC50

Species: Pimephales promelas (fathead minnow)

Dose: > 100 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae:

Growth inhibition NOEC

Species: Pseudokirchneriella subcapitata (microalgae)

Dose: >= 100 mg/l

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

		Exposure time: 72 h Method: OECD Test Guideline 201
		<u>Toxicity to bacteria:</u> NOEC Species: Photobacterium phosphoreum Dose: > 1.93 mg/l Exposure time: 10 min
Calcium carbonate	471-34-1	<u>Toxicity to fish:</u> LC50 Species: Oncorhynchus mykiss (rainbow trout) Dose: > 100 mg/l Exposure time: 96 h <u>Acute and prolonged toxicity for aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: > 100 mg/l Exposure time: 48 h <u>Toxicity to algae:</u> EC50 Species: Desmodesmus subspicatus (green algae) Dose: > 14 mg/l Exposure time: 72 h No toxicity at the limit of solubility <u>Toxicity to bacteria:</u> Respiration inhibition of activated sludge EC50 Species: Dose: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

ID No : UN 1950
Proper shipping name : Aerosols
Class : 2.1
Labels : 2.1

Safety Data Sheet

Würth Film

Version 5.0

Revision Date 11/30/2014

Print Date 12/03/2014

Emergency Response : 126
Guidebook Number

TDGR

ID No : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Labels : 2.1

ICAO/IATA-DGR

ID No : UN 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
ICAO-Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (passenger aircraft) : Y203
Environmentally hazardous : no

IMDG-Code

ID No : UN 1950
Description of the goods : AEROSOLS

Class : 2.1
IMDG-Labels : 2.1
EmS Number 1 : F-D
EmS Number 2 : S-U

Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Fire Hazard
Sudden Release of Pressure Hazard
Chronic Health Hazard

CERCLA Reportable Quantity : This material does not contain any components with a CERCLA RQ.

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

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PENN RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components	CAS-No.
petroleum gas	68476-85-7
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4
Residual oils (petroleum), solvent-refined	64742-01-4
Residual oils (petroleum), solvent-dewaxed	64742-62-7
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7
baseoil - unspecified	64742-57-0
Lubricating oils (petroleum), hydrotreated spent	64742-58-1
petrolatum	8009-03-8

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components	CAS-No.
petroleum gas	68476-85-7
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4
Residual oils (petroleum), solvent-refined	64742-01-4
Residual oils (petroleum), solvent-dewaxed	64742-62-7
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7
baseoil - unspecified	64742-57-0
petrolatum	8009-03-8

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Safety Data Sheet

Wurth Film

Version 5.0

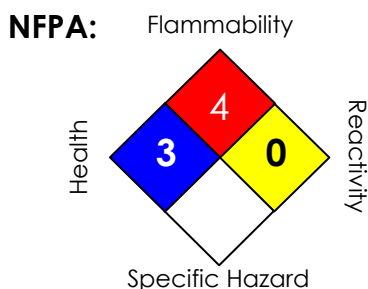
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Components	CAS-No.
petroleum gas	68476-85-7
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4
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Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4

California Prop. 65

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION
Further information

HMIS III:

HEALTH	3
FLAMMABILITY	4
PHYSICAL	2

0 = Insignificant, 1 =Slight,
 2 =Moderate, 3 =High, 4 = Extreme

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

Safety Data Sheet

Wurth Film

Version 5.0

Revision Date 11/30/2014

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Birlenbacher Str. 19
D-57078 Siegen
Germany
Telephone: +49-(0)271-88072-0

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