

Safety Data Sheet

WÜRTH FIXALL, Part B

Version 7.0

Revision Date 10/09/2014

Print Date 10/12/2014

SECTION 1. IDENTIFICATION

Commercial Product Name : WÜRTH FIXALL, Part B
Product number : 0893301900 B
SDS-Identcode : 10042402
Product Use Description : Dual-component adhesive
Company : Würth 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**

Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitisation : Category 1

GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/

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spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

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
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	25068-38-6	\geq 50 - < 70
Calcium carbonate	1317-65-3	\geq 10 - < 20
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	\geq 5 - < 10
2-Propenenitrile, polymer with 1,3-butadiene, 3-carboxy-1-cyano-1-methylpropyl-terminated, polymers with 2,2'-(1,4-cyclohexanediy)bi	163440-98-0	\geq 1 - < 5
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	\geq 1 - < 5
1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane	14228-73-0	\geq 1 - < 5
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	\geq 1 - < 5
Carbon black	1333-86-4	\geq 0.1 - < 1

SECTION 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move

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- out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. If symptoms persist, call a physician. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- 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.
- Ingestion : 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.

Notes to physician

- Treatment : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- Form : liquid
- Flash point : 94 °C (201 °F)
Method: ISO 3679
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products may be formed under fire conditions (see section 10).
Exposure to decomposition products may be a hazard to health.

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- 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.
Avoid contact with skin and eyes.
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.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- 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**

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- Handling : For personal protection see section 8.
 Do not breathe vapours or spray mist.
 Avoid contact with skin and eyes.
 Use appropriate container to avoid environmental contamination.
 Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- 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 : Store in original container.
 Keep containers tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage : Keep away from food, drink and animal feedingstuffs.
- Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
Calcium carbonate	1317-65-3	OSHA Z-1	TWA	5 mg/m ³	2007-01-01
		NIOSH REL	TWA	5 mg/m ³	2013-10-08
		NIOSH REL	TWA	10 mg/m ³	2013-10-08
		OSHA P0	TWA	15 mg/m ³	1989-01-19
		OSHA P0	TWA	5 mg/m ³	1989-01-19
Carbon black	1333-86-4	OSHA Z-1	TWA	3.5 mg/m ³	1997-08-04
		NIOSH REL	TWA	3.5 mg/m ³	2013-10-08
		NIOSH REL	TWA	0.1 mg/m ³	2013-10-08
		OSHA P0	TWA	3.5 mg/m ³	1989-01-19
		ACGIH	TWA	3 mg/m ³	2013-03-01

- Engineering measures : Provide sufficient air exchange and/or exhaust in work

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- rooms.
- Eye protection : Tightly fitting safety goggles
- Hand protection : 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 the case of vapour formation use a respirator with an approved filter.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
Physical state : liquid
- Colour : No data available
Odour : characteristic
Odour Threshold : No data available
Flash point : 94 °C (201 °F)
Method: ISO 3679
- Ignition temperature : No data available
Thermal decomposition : No data available
Lower explosion limit : No data available

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Upper explosion limit	: No data available
Flammability	: No data available
Molecular weight	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: 149 °C(300 °F)
Vapour pressure	: No data available
Relative vapour density	: No data available
Evaporation rate	: No data available
Density	: 1.266 g/cm ³ at 20 °C (68 °F)
Relative density	: No data available
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
Volatile organic compounds (VOC) content	: 0.36 %

SECTION 10. STABILITY AND REACTIVITY

Hazardous decomposition products	: Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
Hazardous reactions	: Note: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute dermal toxicity	: Acute toxicity estimate Dose: > 5,000 mg/kg Method: Calculation method
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Acute inhalation toxicity : Acute toxicity estimate
 Exposure time: 4 h
 Dose: > 40 mg/l
 Method: Calculation method

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:

reaction product: bisphenol-A- 25068-38-6
 (epichlorhydrin); epoxy resin
 (number average molecular
 weight ≤ 700)

Acute oral toxicity: LD50 Rat
 Dose: > 2,000 mg/kg
 Method: OECD Test Guideline 420

Acute dermal toxicity: LD50 Rat
 Dose: > 2,000 mg/kg
 Method: OECD Test Guideline 402

Skin irritation: Rabbit
 Result: Irritating to skin.
 Method: OECD Test Guideline 404

Eye irritation: Result: Irritating to eyes.

Carcinogenicity: No evidence of carcinogenicity in animal studies.

Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Calcium carbonate 1317-65-3

Acute oral toxicity: LD50 Rat
 Dose: > 2,000 mg/kg

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether 3101-60-8

Skin irritation: Result: irritating

Eye irritation: Result: irritating

2-Propenenitrile, polymer with 1,3-butadiene, 3-carboxy-1-cyano-1-methylpropyl-terminated, polymers with 2,2'-[1,4-cyclohexanediylbi

Skin irritation: Result: irritating

Eye irritation: Result: irritating

Siloxanes and Silicones, di-Me, reaction products with silica 67762-90-7

Eye irritation: Result: irritating

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane 2530-83-8

Acute oral toxicity: LD50
 Dose: > 50 - 300 mg/kg

Acute dermal toxicity: LD50

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Dose: > 1,000 - 2,000 mg/kg

Acute inhalation toxicity: LC50

Dose: > 10 - 20 mg/l/Exposure time: 4 h

Skin irritation: Result: irritatingEye irritation: Result: irritating

Carbon black

1333-86-4

Acute oral toxicity: LD50 Rat

Dose: > 8,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 RatDose: > 4.6 mg/m³Exposure time: 4 hSkin irritation: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

Eye irritation: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Carcinogenicity: Animal testing did not show any carcinogenic effects.Mutagenicity: In vivo tests did not show mutagenic effectsReproductive toxicity: No toxicity to reproduction**Carcinogenicity:****ACGIH**

Carbon black

1333-86-4

OSHA

No 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

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

IARC

Carbon black

1333-86-4

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SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound halogens (AOX) : not included
Volatile organic compounds (VOC) content : 0.36 %
Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Component:

reaction product: bisphenol-A-epichlorhydrin); epoxy resin (number average molecular weight \leq 700) 25068-38-6

Toxicity to fish:
LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: 1.2 mg/l
Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:
EC50
Species: Daphnia magna (Water flea)
Dose: 1.1 - 2.8 mg/l
Exposure time: 48 h

Toxicity to algae:
EC50
Species: Scenedesmus capricornutum (fresh water algae)
Dose: 9.1 mg/l
Exposure time: 48 h

Calcium carbonate 1317-65-3

Toxicity to fish:
LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: > 10,000 mg/l
Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:
EC50
Species: Daphnia magna (Water flea)
Dose: > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae:
EC50
Species: Desmodesmus subspicatus (green algae)
Dose: > 200 mg/l
Exposure time: 72 h

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Carbon black

1333-86-4

Toxicity to fish:

LC0

Species: Brachydanio rerio (zebrafish)

Dose: 1,000 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 5,600 mg/l

Exposure time: 24 h

Toxicity to algae:

ErC50

Species: Desmodesmus subspicatus (Scenedesmus subspicatus)

Dose: > 10,000 mg/l

Exposure time: 72 h

Toxicity to algae:

NOEC

Species: Desmodesmus subspicatus (Scenedesmus subspicatus)

Dose: > 10,000 mg/l

Exposure time: 72 h

Toxicity to bacteria:

EC0

Species: Bacteria

Dose: > 800 mg/l

Exposure time: 3 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Do not dispose of waste into sewer.
This material and its container must be disposed of as hazardous waste.
Do not dispose of together with household waste.

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

ID No

: UN 3082

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Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
: (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

Class : 9
Packing group : III
Labels : 9
Emergency Response : 171
Guidebook Number

TDGR

ID No : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

Class : 9
Packing group : III
Labels : 9

ICAO/IATA-DGR

ID No : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

Class : 9
Packaging group : III
ICAO-Labels : 9
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Packing instruction (passenger aircraft) : Y964
Environmentally hazardous : no

IMDG-Code

ID No : UN 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

Class : 9
Packaging group : III
IMDG-Labels : 9
EmS Number 1 : F-A

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EmS Number 2 : S-F

Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION**SARA 311/312 Hazards** : Acute Health Hazard**CERCLA Reportable Quantity** : Calculated RQ exceeds reasonably attainable upper limit.**EPCRA_313** US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

EPCRA_302 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

<u>Components</u>	<u>CAS-No.</u>
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	25068-38-6
Calcium carbonate	1317-65-3
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate	25852-37-3
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8
2-Propenenitrile, polymer with 1,3-butadiene, 3-carboxy-1-cyano-1-methylpropyl-terminated, polymers with 2,2'-[1,4-cyclohexanediyl]bi	163440-98-0
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7
ethanediol	107-21-1

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

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<u>Components</u>	<u>CAS-No.</u>
Calcium carbonate	1317-65-3
Quartz (SiO ₂)	14808-60-7

NJ RTK

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

<u>Components</u>	<u>CAS-No.</u>
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	25068-38-6
Calcium carbonate	1317-65-3
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate	25852-37-3
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8
2-Propenenitrile, polymer with 1,3-butadiene, 3-carboxy-1-cyano-1-methylpropyl-terminated, polymers with 2,2'-[1,4-cyclohexanediy]bi	163440-98-0
Carbon black	1333-86-4

California Prop. 65

: WARNING! This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

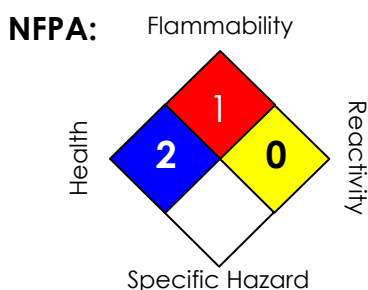
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SECTION 16. OTHER INFORMATION**Further information****HMIS III:**

HEALTH	3
FLAMMABILITY	1
PHYSICAL	0

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.

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