

Rust Exterminator

Safety Data Sheet

SECTION 1: Product and company identification

Product name : Rust Exterminator
Use of the substance/mixture : Aerosol
Coating
Product code : 571045 SDS Number: 83469903
Company : Qual-Chem Corp.
PMB #622, 2220 Otay Lakes Rd Ste 502
Chula Vista, CA 91915-1009 - USA
T (866) 962-6168
Emergency number : EMERGENCY # CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Aerosol 1 H222
Eye Irrit. 2A H319
STOT SE 3 H336

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Extremely flammable aerosol
Causes serious eye irritation
May cause drowsiness or dizziness

Precautionary statements (GHS-US) :

Keep away from heat, hot surfaces, Do not smoke, open flames, sparks. - No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use
Avoid breathing dust, fume, gas, mist, spray, vapors
Wash thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear protective gloves, protective clothing, eye protection, face protection
If inhaled: Remove person to fresh air and keep comfortable for breathing
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Call a doctor, a POISON CENTER if you feel unwell
If eye irritation persists: Get medical advice/attention
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
Dispose of contents/container to comply with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

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| Name | Product identifier | % | Classification (GHS-US) |
|----------------------------------|--------------------|----------|--|
| acetone, propan-2-one, propanone | (CAS No) 67-64-1 | 40 - 60 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| isobutane | (CAS No) 75-28-5 | 10 - 20 | Not classified |
| dimethyl ether | (CAS No) 115-10-6 | 10 - 20 | Not classified |
| ethanediol, ethylene glycol | (CAS No) 107-21-1 | 2.5 - 10 | Acute Tox. 4 (Oral), H302 |
| TANNIC ACID | (CAS No) 1401-55-4 | 2.5 - 10 | Not classified |
| 2-propanol | (CAS No) 67-63-0 | 2.5 - 10 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| propane | (CAS No) 74-98-6 | 2.5 - 10 | Flam. Gas 1, H220 Compressed gas, H280 |
| oxalic acid | (CAS No) 144-62-7 | 1 - 2.5 | Not classified |

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If breathing is difficult, give oxygen. Get immediate medical attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this sheet where possible. Keep victim warm and rested.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary. Do not apply mouth-to-mouth resuscitation. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : Rinse mouth with water. Get immediate medical advice/attention. Do not induce vomiting without medical advice. Drink plenty of water. If vomiting occurs have person lean forward.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes serious eye irritation. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Irritation of the nasal mucous membranes. Irritation to throat.
- Symptoms/injuries after inhalation : Irritation of the nasal mucous membranes. May cause drowsiness or dizziness. Headache. Nausea. Vomiting.
- Symptoms/injuries after skin contact : No effects known.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed. Keep watching the victim.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water fog. Alcohol-resistant foam. Dry powder. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Extremely flammable aerosol. Under fire conditions closed containers may rupture or explode. Combustion produces irritating gases.
- Explosion hazard : Contents under pressure. Pressurized container: may burst if heated.
- Reactivity : Upon combustion: CO and CO₂ are formed. Toxic gases may be formed. Irritating gases. In case of fire, corrosive gases come free.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Move containers away from the fire area if this can be done without risk. Use water spray or fog for cooling exposed containers. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stay upwind/keep distance from source. Evacuate unnecessary personnel. Vapors may travel long distances along ground before igniting/flashing back to vapor source.

6.1.1. For non-emergency personnel

Protective equipment : Do not enter without an appropriate protective equipment. Advice local authorities if considered necessary. DO NOT touch spilled material. Ventilate the area thoroughly, especially low lying areas (basements, work pits etc.).

Emergency procedures : Do not breathe gas. Evacuate unnecessary personnel. Keep upwind. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Advice local authorities if considered necessary. Stop leak if safe to do so. Do not contaminate water with the product or its container. Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment : Eliminate every possible source of ignition. Prevent the product from entering drains or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Form with air vapors (heavier than air) who stay on the floor. Stop leak if safe to do so. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Isolate area until gas has dispersed. Collect spillage.

Methods for cleaning up : Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Dispose as hazardous waste.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not use if spray button is missing or defective. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, sparks and flame.

Precautions for safe handling : Avoid prolonged and repeated contact with skin. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal. Do not breathe gas/vapor/aerosol. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not spray on a naked flame or any incandescent material. Do not smoke while handling product. Ground/bond container and receiving equipment. Do not re-use empty containers. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Observe normal hygiene standards. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Do not discharge the waste into the drain.

Hygiene measures : Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Pressurized container. Do not puncture, incinerate or crush. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep cool. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Refrigerate.

Storage temperature : < 49 °C

Storage area : Aerosol 2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| ethanediol, ethylene glycol (107-21-1) | | |
|--|--------------------------------|----------------------|
| ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| ACGIH | Remark (ACGIH) | URT & eye irr |
| 2-propanol (67-63-0) | | |
| ACGIH | ACGIH TWA (ppm) | 200 ppm |

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| ethanediol, ethylene glycol (107-21-1) | | |
|--|---------------------------------|---------------------------|
| ACGIH | ACGIH STEL (ppm) | 400 ppm |
| ACGIH | Remark (ACGIH) | Eye & URT irr; CNS impair |
| acetone, propan-2-one, propanone (67-64-1) | | |
| ACGIH | ACGIH TWA (ppm) | 250 ppm |
| ACGIH | ACGIH STEL (ppm) | 500 ppm |
| ACGIH | Remark (ACGIH) | eye irr; CNS impair; BEI |
| propane (74-98-6) | | |
| ACGIH | ACGIH TWA (ppm) | 1000 ppm |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| isobutane (75-28-5) | | |
| ACGIH | ACGIH STEL (ppm) | 1000 ppm |
| oxalic acid (144-62-7) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 1 mg/m ³ |
| ACGIH | ACGIH STEL (mg/m ³) | 2 mg/m ³ |
| ACGIH | Remark (ACGIH) | URT, eye, & skin irr |

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station. If exposure limits have not been established, maintain airborne levels to an acceptable level. . Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. . Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Gloves. Protective goggles. Protective clothing. Use appropriate personal protective equipment when risk assessment indicates this is necessary.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------------------|
| Physical state | : Gas |
| Appearance | : Aerosol. brown. |
| Odor | : Solvent-like odor |
| Odor threshold | : No data available |
| pH | : No data available |
| vapling point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 74.69 °F Estimated |
| Flash point | : -156 °F Propellant estimated |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Vapor pressure | : No data available |
| Relative density | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Specific gravity / density | : 0.519 g/ml Estimated |
| Solubility | : No data available |
| Log Pow | : No data available |

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| | |
|---------------------------|---------------------|
| Log Kow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO₂ are formed. Toxic gases may be formed. Irritating gases. In case of fire, corrosive gases come free.

10.2. Chemical stability

Risk of explosion. Risk of ignition. Unstable.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents. Nitrates. Peroxides. Fluorine. Chlorine. Do not mix with other chemicals. May form an explosive mixture in the presence of air.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Phosphorous oxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| ethanediol, ethylene glycol (107-21-1) | |
|---|---|
| LD50 oral rat | 4700 mg/kg |
| LD50 dermal rabbit | 10626 mg/kg |
| ATE CLP (oral) | 500.000 mg/kg body weight |
| ATE CLP (dermal) | 10626.000 mg/kg body weight |
| TANNIC ACID (1401-55-4) | |
| LD50 oral rat | 2260 mg/kg |
| ATE CLP (oral) | 2260.000 mg/kg body weight |
| 2-propanol (67-63-0) | |
| LD50 oral rat | 5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat) |
| LD50 dermal rabbit | 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) |
| LC50 inhalation rat (mg/l) | 73 mg/l/4h (Rat) |
| ATE CLP (oral) | 5045.000 mg/kg body weight |
| ATE CLP (dermal) | 12870.000 mg/kg body weight |
| ATE CLP (vapors) | 73.000 mg/l/4h |
| ATE CLP (dust, mist) | 73.000 mg/l/4h |
| oxalic acid (144-62-7) | |
| ATE CLP (oral) | 500.000 mg/kg body weight |
| ATE CLP (dermal) | 1100.000 mg/kg body weight |

| | |
|-----------------------------------|----------------------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

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| | |
|--|--|
| TANNIC ACID (1401-55-4) | |
| IARC group | 3 - Not Classifiable |
| 2-propanol (67-63-0) | |
| IARC group | 3 - Not Classifiable |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/injuries after inhalation | : Irritation of the nasal mucous membranes. May cause drowsiness or dizziness. Headache. Nausea. Vomiting. |
| Symptoms/injuries after skin contact | : No effects known. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. |
| Likely routes of exposure | : Skin and eyes contact.;Inhalation |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------------|---|
| 2-propanol (67-63-0) | |
| LC50 fish 1 | 4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system) |
| EC50 Daphnia 1 | > 10000 mg/l (48 h; Daphnia magna) |
| LC50 fish 2 | 9640 mg/l (96 h; Pimephales promelas; Lethal) |
| EC50 Daphnia 2 | 13299 mg/l (48 h; Daphnia magna) |
| Threshold limit algae 1 | > 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate) |
| Threshold limit algae 2 | 1800 mg/l (72 h; Algae; Cell numbers) |

12.2. Persistence and degradability

| | |
|---------------------------------|---|
| 2-propanol (67-63-0) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test) data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | 1.19 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.23 g O ₂ /g substance |
| ThOD | 2.40 g O ₂ /g substance |
| BOD (% of ThOD) | 0.49 % ThOD |

12.3. Bioaccumulative potential

| | |
|---------------------------|--|
| 2-propanol (67-63-0) | |
| Log Pow | 0.05 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--------------------------------|---|
| Waste treatment methods | : Contents under pressure. Do not puncture, incinerate or crush. |
| Waste disposal recommendations | : Dispose of contents/container to comply with local/regional/national regulations. |

SECTION 14: Transport information

Department of Transportation (DOT)

| | |
|----------------------------------|---|
| Transport document description | : UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1 |
| UN-No.(DOT) | : UN1950 |
| Proper Shipping Name (DOT) | : Aerosols flammable, (each not exceeding 1 L capacity) |
| Transport hazard class(es) (DOT) | : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115 |

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Hazard labels (DOT) : 2.1 - Flammable gas



Marine pollutant : Yes (IMDG only)



DOT Packaging Non Bulk (49 CFR 173.xxx) : None
DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT Special Provisions (49 CFR 172.102) : N82
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A
DOT Vessel Stowage Other : 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Additional information

Other information : This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.306.

ADR

No additional information available

Transport by sea

UN-No. (IMDG) : UN1950
Proper Shipping Name (IMDG) : AEROSOLS
Class (IMDG) : 2.1 - Flammable gases

Air transport

UN-No. (IATA) : UN1950
Proper Shipping Name (IATA) : Aerosols, flammable
Class (IATA) : 2.1 - Gases : Flammable

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

| | | |
|-----------------------------|-----------------|----------|
| ethanediol, ethylene glycol | CAS No 107-21-1 | 2.5 - 10 |
| 2-propanol | CAS No 67-63-0 | 2.5 - 10 |

ethanediol, ethylene glycol (107-21-1)

Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's List of Lists) : 5000 lb

2-propanol (67-63-0)

Listed on SARA Section 313 (Specific toxic chemical listings)

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acetone, propan-2-one, propanone (67-64-1)

Not listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's List of Lists) 5000 lb

propane (74-98-6)

Not listed on SARA Section 313 (Specific toxic chemical listings)

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

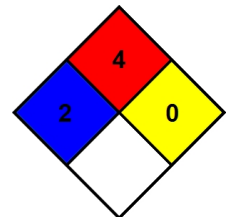
Full text of H-phrases:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Compressed gas | Gases under pressure Compressed gas |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Aerosol 1 | Flammable aerosol Category 1 |
| Flam. Gas 1 | Flammable gases Category 1 |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H220 | Extremely flammable gas |
| H222 | Extremely flammable aerosol |
| H225 | Highly flammable liquid and vapor |
| H280 | Contains gas under pressure; may explode if heated |
| H302 | Harmful if swallowed |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.