

Safety Data Sheet

Formula No: 3842.02 Revision Date: 2017/10/24 Superseded Date: 2015/05/01

Revision Date:

Page

2017/10/24

1 of 7

Mirachem Rust Inhibitor (Liquid) Use Dilution

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

Product name: Mirachem Rust Inhibitor (Liquid)

Identified uses:
Use dilution of industrial rust inhibitor additive.
Use restrictions:
Use only for the purposes indicated on the label.

Company: Mirachem, LLC

P.O. Box 14059

Phoenix, Arizona 85063-4059

USA

Email address: SDS@mirachem.com

Customer service: USA (English) Telephone: 1 (800) 847-3527

Emergency phone number(s): USA (English, Business Hours) Telephone: 1 (800) 847-3527

Chemtrec (US, 24 hours) Telephone: 1 (800) 424-9300

2. HAZARD(S) IDENTIFICATION

GHS Classification Does not meet the requirements for classification under GHS.

GHS Label Elements

Pictogram None required.
Signal word None required.
Hazard statements None required.

Precautionary Statements

Prevention: None required.

Response: None required.

Storage: None required.

Disposal: None required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical characterization:</u> Mixture (water based)

Ingredient:CAS NumberPercentSodium Nitrite7632-00-0< 1</td>Methylbenzotriazole, sodium salt64665-57-2< 1</td>

^{*} Composition of this ingredient is a trade secret.

4. FIRST AID MEASURES

Protection of First-Aiders: First aid responders should pay attention to self-protection and use the recommended

protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to SECTION 8 – EXPOSURE CONTROLS / PERSONAL

PROTECTION, for specific personal protective equipment.

Inhalation: No adverse effects are anticipated. Remove to fresh air. If breathing is difficult, get

medical assistance.

Eye contact: May cause mild temporary irritation. If eye irritation develops, rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Get medical attention if eye irritation persists.

Ingestion: No adverse health effects are anticipated. If swallowed, treat symptomatically and

supportively. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If adverse health effects develop, persist or are severe, seek medical attention if you feel unwell. Never give anything by mouth to an unconscious

person.

Skin contact: No adverse effects expected. Prolonged or repeated exposure may cause mild irritation

or drying of skin. If on skin, wash with plenty of water. If irritation develops or persists,

get medical attention.

Symptoms and effects, both acute

and delayed:

Aside from the information provided above and below, no additional symptoms and

effects are anticipated.

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient. Skin contact may aggravate pre-

existing dermatitis.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire

extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be

less effective. Do not use direct water stream. May spread fire.

Unusual fire and explosion hazards: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition

products:

Decomposition products may include the following materials; oxides of carbon, nitrogen

and molybdenum.

Special precautions for fire fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving personal risk or without suitable

training.

Special protective equipment for

fire fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Mirachem Rust Inhibitor (Liquid) Use Dilution Formula Number 3842.02

Revision Date: 2017/10/24

Page 2 of 7

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency

procedures:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For

additional information, refer to SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION. Refer to SECTION 7 – HANDLING AND STORAGE, for

additional precautionary measures.

Environmental precautions: Not classified as an environmental hazard. See SECTION 12 – ECOLOGICAL

INFORMATION for additional information.

Methods for cleaning Up: Small Spills: Clean up with absorbent and collect absorbent for disposal in accordance

with Federal, State or local disposal requirements.

Large Spills: Dike or otherwise contain spilled material. Collect and drum off material for disposal in accordance with Federal, State or local disposal requirements. Rinse with water. See SECTION 13 – DISPOSAL CONSIDERATIONS and SECTION 15 –

REGULATORY REQUIREMENTS for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes. Keep container closed. Promptly clean up spills. See

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION for additional

information.

Conditions for safe storage, including incompatibilities:

Keep containers tightly closed. Protect from freezing; may rupture or degrade product.

Store between 40°F (4°C) and 110°F (43°C). Keep out of reach of children.

Recommended packaging

materials:

Use original container or clean plastic (polyethylene) containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: None established (under ACGIH or OSHA.)

Engineering controls: No special requirements. Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Eye/Face protection: Wear safety glasses with side shields or chemical goggles where conditions may cause

eye exposure.

Skin protection: Under intended handling conditions, no protective clothing should be needed. Use

protective clothing as required for the situation. Where diluted product is heated to

>140°F, wear thermal protective gloves.

Hand protection: Under intended handling conditions, no protective gloves are required. Use protective

gloves as required for the situation. Nitrile, vinyl or latex gloves of 4 mil thickness or greater are recommended. Where diluted product is heated to >140°F, wear thermal

protective gloves.

Respiratory protection: Under intended handling conditions, no respiratory protection is needed.

Personal hygiene: Use good personal hygiene. Do not consume or store food in the work area. Wash

hands before smoking or eating.

Mirachem Rust Inhibitor (Liquid) Use Dilution Formula Number 3842.02

Revision Date: 2017/10/24

Page 3 of 7

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear pourable liquid, light Vapor pressure @ 20°C Not established

yellow to yellow @ 37°C Not established

Odor:Sour chemicalVapor density (air = 1)Not establishedOdor threshold:Not establishedRelative density:Not established

pH: 10.5 – 11.0 Solubility in water: Complete

Melting point:Not applicable to liquidsPartition coefficient:Not establishedFreezing point:32°F (0 °C)Auto-ignition temperature:Not establishedInitial boiling point:212°F (100°C)Decomposition temperature:Not established

Flash point:

Non-flammable (will not burn)

Viscosity @ 20°C: < 100 cSt

Evaporation rate

> 1 (Butyl Acetate = 1)

Flammability:

Not classified

VOC

Viscosity @ 20°C: < 1.11 + g/cm3

0 g/l (0.0 lb./gal)

10. STABILITY AND REACTIVITY

Chemical stability & reactivity: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous polymerization will not occur.

Reacts with acids, ammonium salts, reactive metals and some organics. Contains nitrites, which may react with secondary and tertiary amines in acidic conditions to form nitrosamines. Some nitrosamines have been found to cause cancer in animal studies.

Conditions to avoid: No specific data.

Incompatible materials: Strong oxidizing agents, strong acids, and strong reducing agents. Do not mix with

amines.

Hazardous decomposition

products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce oxides of carbon, nitrogen and

molybdenum.

11. TOXICOLOGICAL INFORMATION

The GHS health hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Toxicity Estimates for this mixture (ATE_{mix}) are representative of these calculations.

Likely routes of exposure: Inhalation Skin contact X Eye contact X Ingestion

Acute Toxicity:

Oral: Not classified LD_{50} ATE_{mix} > 2500 mg/kg Dermal: LD_{50} ATE_{mix} > 2500 mg/kg > 2500 mg/kg

Inhalation: No relevant data available.

Other routes: Not applicable.

Skin corrosion/irritation:

Serious eye damage/irritation:

Skin sensitization:

Does not meet the requirements for classification. Non-irritating.

Does not meet the requirements for classification. Non-irritating.

No component of this mixture is known to be a skin sensitizer.

Respiratory sensitizer: Not expected to be a respiratory sensitizer.

Chronic Toxicity:

Mutagenicity: No component in this mixture is known to be a mutagen or genotoxin.

Carcinogenicity: No component of this mixture is listed by IARC, NTP, OSHA or ACGIH as a

carcinogen.

Teratogenicity: No component in this mixture is known to be a teratogen.

Developmental / Fertility effects: No known significant effects or critical hazards.

Specific Target Organ Toxicity Single dose: No relevant data available.

(STOT) Repeat exposure: No relevant data available

Aspiration hazard: No relevant data available.

Mirachem Rust Inhibitor (Liquid) Use Dilution Formula Number 3842.02 Revision Date: 2017/10/24 Page 4 of 7

12. ECOLOGICAL INFORMATION

The GHS environmental hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Aquatic Toxicity Estimates for this mixture (ATE_{mix}) are representative of these calculations.

Toxicity:

Acute Aquatic Toxicity Fish Not classified LC₅₀ ATE_{mix} > 100 mg/l

Crustacea Not classified EC_{50} ATE_{mix} > 100 mg/l

Algae No relevant data available.

Chronic Aquatic Toxicity No relevant data available.

Persistence and degradability: The individual ingredients of this mixture are readily biodegradable.

Bioaccumulative potential: No relevant data available. Mobility in soil: No relevant data available.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers may retain some product residues. Rinse container before disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff with soil and waterways.

RCRA Classification: Unused disposed material is not a RCRA Hazardous Waste.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

14. TRANSPORT INFORMATION

UN Number: N/A Transportation Hazard Class: N/A UN Proper Shipping Name: N/A UN Packing Group: None

ADR (EU Carriage): Not regulated RID (Rail) Not regulated AND/ADNR (Inland water): Not available ICAO/IATA (Air) Not regulated

IMO/IMDG (Marine): Not available DOT Hazard Classification: N/A

DOT Shipping Name: Not available

NMFC Freight Class: Compound, Cleaning Fluid, NOI 48580 Sub 3, Class 55

HS Tariff Classification 3402.90.5030

(Schedule B)

Special Precautions: No known special precautions.

Mirachem Rust Inhibitor (Liquid) Use Dilution Formula Number 3842.02

Revision Date: 2017/10/24

Page 5 of 7

15. REGULATORY INFORMATION

US Federal Regulations

SARA Title III

Section 302 – Extremely This product does not contain chemicals at levels which require reporting under this

Hazardous Substance statue.

Section 302.4 & 304: Releases of this product to air, land, or water are not reportable to the National

CERCLA: Hazardous

Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under

the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

Sections 311 & 312 Immediate (acute) Health Hazard No

Delayed (chronic) Health Hazard

Fire Hazard

Reactive Hazard

No
Sudden Release of Pressure

No

Section 313 This product does contain chemicals at levels which require reporting under this statue.

Sodium Nitrite (CAS No. 7632-00-0) 100 lbs.

TSCA All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

US State Regulations

Arizona Maricopa County Rule 331 This product is considered a Low-VOC cleaner.

California California Safe Drinking Water and Toxic Enforcement Act This product does not contain any materials currently listed by California as chemicals known to cause cancer or known to have reproductive

Droposition 65)

(Proposition 65) toxicity under Proposition 65.

Georgia Rule 391-3-02 At use dilution, this product is greater than 80% water which qualifies this

as an "Aqueous Cleaning Solvent". As an "Aqueous Cleaning Solvent"

this product is exempt from Rule 391-3-02.

Michigan Rule R 336.1281 & The absolute (composite) vapor pressure of this product in either

R 336.1212 concentrated or diluted form is less than 0.1 mm Hg under standard conditions. Part (e) under R 336.1281 exempts this product from the

requirement for a "Permit to Install". The vapor pressure for this product exempts it from the recordkeeping requirements of R 366.1212 as indicated in Part (3)(b) and clarified by MDEQ interoffice communication

Revision Date:

Page

2017/10/24

6 of 7

of July 5, 2011.

Pennsylvania Hazardous Substances List This product does contain a chemical listed as an environmental hazard

that may require reporting. Sodium Nitrite (CAS No. 7632-00-0)

16. OTHER INFORMATION

HMIS Rating:



NFPA Rating:



Special

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Mirachem shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current status of scientific and technical knowledge.

Revision Date:

Page

2017/10/24

7 of 7

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