



SECTION 1. IDENTIFICATION

GHS Product Identifier: **RUST911 ULTRA CONCENTRATE RUST REMOVER** (all sizes)
AMAZON Product Identifier(s): **ASIN:** [B07G2MP9LP](#), [B008HS40Z4](#), [B0031HQJWW](#)
Chemical name: Not available.
Other means of identification: Not available.
Product type: liquid

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Oxidation Removers
Pool treatment
Water treatment
Industrial cleaners

Uses advised against The supplier has no experience or data on this use.

Manufacturer or Supplier Details

Supplier's Details: Rust911, Inc.
925 3rd Ave. SE, Hickory, NC 29602
(607) 425-2882

Emergency telephone number: (607) 425-2882 [24/7]

SECTION 2. HAZARDS IDENTIFICATION

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Classification of the substance or Mixture: Not classified.

GHS label elements

Signal word: No signal word.
Hazard statements: No known significant effects or critical hazards.

Precautionary statements

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.
Supplemental label elements: None known.
Hazards not otherwise classified: None known.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture
Chemical name: Not available.
Other means of identification: Not available.

CAS number/other identifiers
Product code: 863043000013, 863043000006, 863043000037

Ingredient name	%	CAS number
Phosphonic acid, salt	38-42	2809-21-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present, which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4. FIRST AID MEASURES

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (section 11)



SECTION 5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media: None known.

Specific hazards arising from the Chemical: 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:
carbon oxides (CO, CO₂)
Phosphine
phosphorus oxides

Special protective actions 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 any 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.

Remark : Non/flammable.

SECTION 6. ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non/emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).



Methods and materials for containment and cleaning up

- Small spill:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water/soluble. Alternatively, or if water/ insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, watercourses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non/combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- Protective measures:** Put on appropriate personal protective equipment (see section 8).
- Advice on general occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage:** Store in accordance with local regulations. Store in original container including any incompatibilities protected from direct sunlight in a dry, cool and well/ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- Storage temperature:** Do not store below the following temperature: 0 °C



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits	None.
Appropriate engineering controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side/shields.
Respiratory protection:	Use a properly fitted, air/purifying or air/fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin protection

Hand protection:	Chemical/resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist



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before handling this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Liquid
Color:	Colorless to light yellow.
Odor:	Slight
Odor threshold:	Not available.
pH:	6 - 8
Melting point:	Not available.
Boiling point:	Not available.
Flash point:	Not applicable.
Burning time:	Not applicable.
Burning rate:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Non-flammable.
Lower and upper explosive (flammable) limits	Lower: Not applicable. Upper: Not applicable.
Vapor pressure:	Not available.
Vapor density:	Not available.
Relative density:	Not available.
Solubility:	Miscible in water.
Solubility in water:	Not available.
Octanol/water partition coefficient:	Not available.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not available.
SADT:	Not available.
Viscosity:	Dynamic: Not available. Kinematic: Not available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	No specific data.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.



SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phosphonic Acid, Salt	LD50 Oral	Rat / Male/Female	1,512 mg/kg	-
Remarks; Inhalation:	NA. Non/volatile.			
Rust911 Ultra Concentrate Rust Remover				
	LD50 Oral	Rat	> 2,850 mg/kg	-
	LD50 Dermal	Rat	> 5,000 mg/kg	-

Conclusion/Summary : Conclusive but not sufficient for classification.

Irritation/Corrosion

Conclusion/Summary

Skin: Conclusive but not sufficient for classification.
 Eyes: Conclusive but not sufficient for classification.
 Respiratory: Conclusive but not sufficient for classification.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Phosphonic Acid, Salt	Skin	Guinea pig	Not sensitizing
Remarks:	Non-sensitizer to skin.		

Conclusion/Summary

Skin : Conclusive but not sufficient for classification.
 Respiratory : Conclusive but not sufficient for classification.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Phosphonic Acid, Salt	471 Bacterial Reverse Mutation Test	In vitro; Bacteria	Negative
	476 In vitro Mammalian Cell Gene Mutation Test	In vitro; Mammalian/ Animal	Negative

Conclusion/Summary: Conclusive but not sufficient for classification.

Reproductive toxicity



Conclusion/Summary: Conclusive but not sufficient for classification.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Not available.

Carcinogenicity

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects:

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.
Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available.
Potential delayed effects: Conclusive but not sufficient for classification.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Diphosphonic Acid, Salt	NOAEL Oral	Rat - Male/Female	21 - 27 milligram per kilogram 453 Combined Chronic Toxicity/Carcinogenicity Studies	-

Conclusion/Summary: Conclusive but not sufficient for classification.

General: No known significant effects or critical hazards.



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Carcinogenicity:
Mutagenicity:
Teratogenicity:
Developmental effects:
Fertility effects:

No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates:
Other information:

Not available.
Not applicable.



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SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
Phosphonic acid, Salt			
	Acute LC50 2,173 mg/l Fresh water 203 Fish, Acute Toxicity Test	Fish / Guppy	96 h
	Acute EC50 361 mg/l Fresh water 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates. Water flea	48 h
Remarks ; Acute - Aquatic plants:	Not applicable.		
	Acute IC0 > 282 mg/l Fresh water	Micro/organism - Micro/organism	0.5 h
Rust911 Ultra Concentrate Rust Remover			
	Acute LC50 368 mg/l	Fish / Rainbow trout, Donaldson trout	96 h
	Acute LC50 868 mg/l	Fish / Bluegill	96 h
	Acute EC50 527 mg/l	Aquatic invertebrates. Water flea	48 h
Remarks- Acute: Aquatic Invertebrates:	Conclusive but not sufficient for classification.		
	Acute LC50 8,910 mg/l	Aquatic invertebrates. Larvae	48 h
Conclusion/Summary:	Conclusive but not sufficient for classification.		

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Phosphonic acid, Salt	304A Inherent Biodegradability in Soil	0.4 – 4.8 % - 79 d		Activated sludge
	301E Ready Biodegradability	1.6 % - 79 d		Activated sludge
	- Modified OECD Screening Test			
Rust911 Ultra Concentrate Rust Remover	301D Ready Biodegradability - Closed Bottle Test	5 % -		
	302A Inherent Biodegradability: Modified SCAS Test	90 % -		
	301E Ready Biodegradability - Modified OECD Screening Test	2 % -		



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SECTION 14. TRANSPORT INFORMATION

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number						
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group						
Environment all hazards	No.	No.	No.	No.	No.	No.
Additional information				Tunnel code:		

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Proper shipping name:

Not applicable

SECTION 15. REGULATORY INFORMATION

<p>U.S. Federal regulations:</p>	<p>United States; TSCA 12(b)- Chemical export notification: None of the components are listed. United States; TSCA 4(a)- Final Test Rules: Not listed United States; TSCA 4(a)- ITC Priority list: Not listed United States; TSCA 4(a)- Proposed test rules: Not listed United States; TSCA 4(f)- Priority risk review: Not listed United States; TSCA 5(a)2- Final significant new use rules: Not listed United States; TSCA 5(a)2- Proposed significant new use rules: Not listed United States; TSCA 5(e)- Substances consent order: Not listed United States; TSCA 6- Final risk management: Not listed United States; TSCA 6- Proposed risk management: Not listed United States; TSCA 8(a)- Comprehensive assessment report (CAIR): Not listed United States; TSCA 8(a)- Chemical risk rules: Not listed United States; TSCA 8(a)- Dioxin/Furane precursor: Not listed United States; TSCA 8(a)- Inventory update rule (IUR): Not determined United States; TSCA 8(a)- Preliminary assessment report (PAIR): Not listed United States; TSCA 8(c)- Significant adverse reaction (SAR): Not listed United States; TSCA 8(d)-Health and safety studies: Not listed United States; EPA Clean water act (CWA) section 307- Priority pollutants: Not listed</p>
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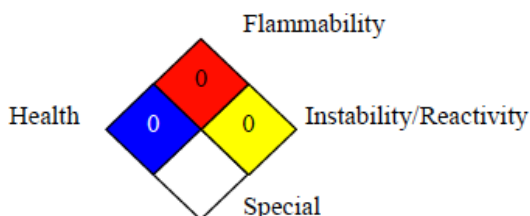
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	United States; EPA Clean water act (CWA) section 311- Hazardous substances: Not listed United States; EPA Clean air act (CAA) section 112- Accidental release prevention; Flammable substances: Not listed United States; EPA Clean air act (CAA) section 112- Accidental release prevention; Toxic substances: Not listed United States; Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs):	Not listed
Clean Air Act Section 602 Class I Substances:	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed
SARA 302/304	Not applicable.
SARA 304 RQ:	Not applicable.
SARA 311/312 classification:	Not applicable.
Composition/information on ingredients	
Massachusetts:	None of the components are listed.
New York:	None of the components are listed.
New Jersey:	None of the components are listed.
Pennsylvania:	None of the components are listed.
California Prop. 65	Not available.
United States inventory (TSCA 8b):	All components are listed or exempted.
Canada inventory:	At least one component is not listed in DSL but all such components are listed in NDSL
International lists:	
Australia inventory (AICS):	Not determined.
Japan inventory:	Not determined.
China inventory (IECSC):	All components are listed or exempted.
Korea inventory:	Not determined.
New Zealand Inventory of Chemicals (NZIoC):	All components are listed or exempted.
Philippines inventory (PICCS):	Not determined.
Taiwan inventory (CSNN):	Not determined.
Malaysia Inventory (EHS Register):	Not determined.

Chemical Weapons Convention List Schedule I Chemicals:	Not listed
Chemical Weapons Convention List Schedule II Chemicals:	Not listed
Chemical Weapons Convention List Schedule III Chemicals:	Not listed

SECTION 16. OTHER INFORMATION

National Fire Protection Association (U.S.A.):



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History:

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 Version: 1.3
 Prepared by: HWP

Key to abbreviations: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labeling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 UN = United Nations

Notice to reader

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