

MATERIAL SAFETY DATA SHEET (MSDS)

RUST REMOVERS(SPRAY TYPE) -RTSP-

Updated on Jan. 10th, 2009

1. Manufacturer Information	【Company name】 Audec Corporation 【Address】 No.7 Shimokawa Bldg. 19-10, Higashi-Magome, 2-Chome, Ota-ku Tokyo, Japan 【Department responsible】 Chemical Products Section 【Phone number】 03-5718-7425 【Fax number】 03-5718-7426 【Emergency contact number】 03-5718-7425												
2. Product Name	Rust Remover Spray	Product No. : RTSP											
3. Identification of Substance	【Classification of uniform or mixed substance】 【Chemical name】 【Composition】	Mixed substance — <table border="1"> <thead> <tr> <th>Compound Name</th> <th>Composition Ratio (%・PPM)</th> </tr> </thead> <tbody> <tr> <td>Purified water</td> <td>90% or more</td> </tr> <tr> <td>Ammonium thioglycolate</td> <td>4% or more</td> </tr> <tr> <td>Organic chelating agent</td> <td>4% or less</td> </tr> <tr> <td>Surfactant</td> <td>2% or less</td> </tr> </tbody> </table> 【UN classification and UN number】 Class 2.1 1950 (Aerosol)		Compound Name	Composition Ratio (%・PPM)	Purified water	90% or more	Ammonium thioglycolate	4% or more	Organic chelating agent	4% or less	Surfactant	2% or less
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4. Hazard Classification	【Name of classification】 【Hazard】 【Toxicity】 【Environmental impact】	Does not correspond to classification standards N/A Unknown Unknown											
5. Emergency Measures	【When in contact with eyes】 【When in contact with skin】 【When inhaled】 【When ingested】	Immediately wash eyes with running water for 15 minutes or more, then receive treatment from a doctor. Wash off well using soap. Remove any contaminated clothing or shoes. Only use clothing and shoes after they have been washed. Receive treatment from doctor if necessary. Move to a location with clear air and rest. When the substance is mistakenly ingested, the person should immediately be made to vomit, then gurgle before being treated by a doctor.											
6. Measures Taken in Case of Fire	【Method of extinguishing】 【Fire extinguishing agents】	Not flammable —											
7. Measures Taken in Case of Leakage	【Small quantity】 【Large quantity】	Recover by mopping up with a rag or sawdust. Block flow by making an embankment and recover using a pump.											
8. Notes on Handling and Storage	【Handling】 【Storage】	Be careful not to allow contact with skin or eyes and avoid inhaling fumes. Use protective equipment if necessary. Prevent leakage. Avoid direct sunlight and store in a well ventilated place away from objects with a hot temperature. Do not contaminate.											
9. Exposure Prevention Measures	【Control concentration】 【Allowable concentration】 【Equipment measures】 【Protective equipment】	N/A Japan Society for Occupational Health recommendations N/A ACGI recommendations N/A Ventilation equipment Breathing protection equipment. If necessary, wear a protective mask, protective glasses, protective gloves, oil resistant antistatic gloves. protective clothing (oil resistant, antistatic)											
10. Physical and Chemical Attributes	【Appearance】 【Specific gravity or specific gravity concentration (25°C)】 【Viscosity (40°C)】 【Vapor pressure】	Near transparent liquid 1.12 — —	【Solubility in water (wt.%)】 Soluble 【Boiling point or range (°C)】 — 【Volatility】 — 【Other】 —										
11. Hazard Information	【Flash point (PM)】 【Ignition point】 【Flammability】 【Ignitability (natural ignitability, reaction with water)】 【Oxidization】	No No No No No	【Self-reactant, explosive】 No 【Dust explosive】 No 【Stability, reactivity】 Stable under normal handling conditions 【Other】 No										
12. Hazard Information (including symptoms and medical information)	【Corrosive to skin】 【Irritability (skin, eyes)】 【Sensitivity】 【Acute toxicity (including 50% chance of death)】 【Chronic toxicity】	No measurement data May cause irritation when in contact with eyes and inflammation of the skin. No Oral toxicity Rat LD50 350mg/kg No data	【Carcinogenicity】 No data 【Mutagenicity (Bacteria, genetic anomalies)】 No data 【Reproductive toxicity】 No data 【Teratogenicity】 No data 【Other (including cases where a toxic gas is given off due to a reaction with water)】 —										
13. Environmental Information	【Degradability】 【Cumulativity】 【Ichthyotoxicity】	Unknown Unknown Unknown											
14. Notes for Disposal	【Small quantity】 【Large quantity】	Soak up with diatomaceous earth and burn in an open incinerator. Notify waste disposal company of contents when requesting disposal.											
15. Notes for Transport	Transport at room temperature and normal pressure, referring to the items listed in the notes on storage and handling. Check that there will be no leakage, and pack the load to ensure it will not tip, fall, or be damaged, in addition to being sure to prevent the cargo from collapsing.												
16. Applicable Legislation	【Fire Services Act】 【Occupational Health and Safety Law】 【Water Pollution Control Law】 【Sewerage Law】 【Law for Safety of Vessels】	No No No No No											
17. References	References: Hazardous Materials Data Book: Fire Defense Agency, Fire Fighting Research Group (1988) Industrial Toxin Handbook 13599 Chemical Products : Issued by The Chemical Daily Co., Ltd.		Chemical Safety Management Data Book : Issued by The Chemical Daily Co., Ltd. Applicable Regulations : Issued by The Chemical Daily Co., Ltd. Chemical Handbook Basic Edition : edited by the Chemical Society of Japan										

Inquiries regarding details: Chemical Products Section TEL : 03-5718-7425

This material safety data sheet is to be provided to businesses handling hazardous chemical products as a reference to ensure safe handling of these products. We request that this is used as a reference by businesses handling these products with the understanding that it is necessary for the business to take responsibility for implementing appropriate measures according to the particular state of handling. This data sheet is not a guarantee of safety.