

MATERIAL SAFETY DATA SHEET

PRODUCT: RF ULTRASONIC BATH CLEANER

1. PRODUCT IDENTIFICATION

Product Name: RF Ultrasonic Bath Cleaner

Trade Name:

Other Name:

UN No: None Allocated

Dangerous Goods Class: None Allocated

Subsidiary Risk: None Allocated

Hazchem Code: None Allocated

Poisons Schedule: None Allocated

Manufacturers Code: Various

Use

Solvent

2. HAZARD IDENTIFICATION

Not Classified Hazardous according to NOHSC criteria

Not Classified as a dangerous good by the criteria of the ADG Code

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS NO.	Proportions %
1-1 dichloro, 1 fluoroethane	[1717-00-6]	High
Aliphatic alcohol	[67-63-0]	Low

4. FIRST AID MEASURES

Swallowed: Do not induce vomiting. Keep at rest. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.

Eye: Irrigate eyes with running water for at least 15 minutes, keep eyelids open.

RF ULTRASONIC BATH CLEANER

Skin: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Inhaled: Move victim to fresh air, loosen tight clothing. If breathing stops give artificial respiration, get prompt medical attention.

Advice to Doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Use water fog to cool intact containers and nearby storage areas.

Protective Equipment for Firefighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus.

Flammability Conditions

Non flammable – explosive vapour. May evolve toxic gases (hydrogen chloride, phosgene, fluorides, hydrogen fluoride, carbon oxides) when heated to decomposition.

Hazchem Code None Allocated

Fire/Explosion

Toxic gases may be evolved in a fire situation.

Extinguishing Media

Non Flammable

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Spillages of this material will usually evaporate at a rate depending on the ambient temperature. Spillages in enclosed spaces may lead to a local depletion of oxygen levels.

Contain spilled liquid with sand or earth. Recover by pumping (use an explosion proof pump) or with a suitable absorbent and place in suitable containers.

RF ULTRASONIC BATH CLEANER

7. HANDLING AND STORAGE

Handling

Do not ingest. Do not breathe gas, fumes, vapors or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage

Store in a cool, well ventilated place and out of direct sunlight and other sources of heat. Keep firmly closed, take care in removing bungs as internal pressure may build up in warm drums.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards

No exposure standard(s) allocated.

Engineering Controls

Ensure adequate ventilation to keep airborne concentrations below exposure standard.

Personal Protection

Where concentrations in air may exceed the exposure standard and means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation. Eye: For open systems where contact is likely, wear safety glasses with side shields. Skin: Wear chemical resistant gloves, PVA and nitrile rubber are suitable, and standard work clothes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colourless liquid with slight ethereal odour

Boiling Point: 32 Deg C

Melting Point: -103.5 Deg C

Specific Gravity: 1.235

Vapour Pressure: 80 kPa @ 25 Deg C

Vapour Density: 4.8 (Air = 1)

Solubility (Water): 5.35 g/L

Percent Volatiles: 100%

Flammability: Non Flammable

Flash Point: Not Relevant

Auto Ignition Temp: 532 Deg C

Upper Explosion Limit: 17.7%

Lower Explosion Limit: 5.6%

RF ULTRASONIC BATH CLEANER

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of use.

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources.

Materials to Avoid

Incompatible with oxidizing agents, alkalis, metals, heat and ignition sources.

Hazardous Decomposition Products

May evolve toxic gases (hydrogen chloride, phosgene, fluorides, hydrogen fluoride, carbon oxides) when heated to decomposition.

Hazardous Reactions

Hazardous polymerisation is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Toxicity Data

LC50 (inhalation): 151g/m³/2 hours (mouse)

LD50 (ingestion): >5g/kg (rat)

LD50 (skin): >2g/kg (rat)

Eye

Low to moderate irritant. Contact may result in irritation, pain and redness.

Skin

Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis.

Swallowed

Moderate toxicity. Ingestion may result in nausea, vomiting, fatigue, dizziness and unconsciousness.

Inhaled

Vapour concentrations above recommended exposure levels may be irritating to the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

RF ULTRASONIC BATH CLEANER

12. ECOLOGICAL INFORMATION

Environment

Dangerous for the ozone layer. Hydrogenated chlorofluorocarbon compounds (HCFC's) do not persist in the stratosphere to the same degree as chlorofluorocarbons (CFC's). Although ozone depleting, they have a lower ozone depleting effect than CFC's. Release of HCFCs into the environment should be minimised and where possible, recycling of HCFCs is recommended.

13. DISPOSAL CONSIDERATIONS

Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Container Disposal

Empty packaging should be disposed in accordance with federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the ADG Code.

15. REGULATORY INFORMATION

SUSDP Schedule: None

16. OTHER INFORMATION

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DATE OF ISSUE: 10/01/2012