



# MATERIAL SAFETY DATA SHEET

**SUBJECT : UPS F. 713 C  
RADIATOR CLEANER**

Manufactures by : WESTERS INDUSTRIES, PT  
Jl. Industri Selatan 10 Blok EE No. 11B Jababeka industrial  
District **Cikarang – Indonesia**  
Emergency call : [6221-89841382](tel:6221-89841382)  
Website : [www.westers-ind.com](http://www.westers-ind.com)  
Email : [info@westers-ind.com](mailto:info@westers-ind.com)

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## A. PHYSICAL DATA :

- Boiling point (760 mm Hg) : Above 392° F (200° C)
- Solubility : Pos
- Specific gravity (25° C) : > 1
- Vapor density : > 1
- Freezing point : > 1
- Evaporation rate : > 1
- Appearance : Red Liquid
- Odor : Acid
- Vapor pressure : Less +
- % Volatile by volume : 80%

## B. HAZARDOUS DATA :

Component	Weight %(appr)	TLV in ppm
- Acid Phosphate	1 – 30	-
- Surfactant	1 – 5	-
- Lutensol	1 – 5	-
- Acid Floric	1 – 20	-

## C. FIRE & EXPLOSION HAZARDS :

- Flash point : N.A
- Extinguishing media : N.A
- Unusual fire and explosion : N.A
- Flammability in air : N.A

## D. REACTIVITY :

- Stability : Stable
- Conditions to avoid : N.A
- Materials to avoid (Incompatibility) : N.A
- Hazardous decomposition products : N.A

## E. TOXICITY & FIRST AID :

- Medical condition aggravated : In case of over exposure seek medical  
By exposure attention immediately
- Effects of acute toxicity : N.A
- Swallowing : May result in nausea, vomiting, breathing  
Difficulties and weakness and also may  
Result in kidney damage by ingestion of  
Large quantities of the product.



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- Inhalation : High vapor concentration may result in Dizziness, headache etc. expose to fresh Air.
- Skin contact : Warm skin immediately with plenty of Water and apply soap and flush with Plenty of water until the effect is subsided In case of severity contact a physician.
- Eye contact : Remove from the exposure immediately & flush with plenty of water for 15 minutes until irritation is subsided . in case of severity contact a physician.
- Notes to physician : There is no specific antidote. Treatment of overexposure should be Directed at the control of symptoms and Clinical conditions.

## F. SPILL OR LEAK PROCEDURES

- Steps to be taken if material is spilled – wear suitable protective equipment. Small spills should be flushed with large quantities of water large spills should be collected for disposal.

## G. SPECIAL PERSONAL PROTECTION

- Respiratory : Use air respiratory, facial masks etc.
- Ventilation : Local exhaust is adequate
- Skin protection : Aprons, gloves made of P.E or Neoprene rubber
- Eyes protection : Safety glasses are recommended
- Other protection equipment : N.A

## H. SPECIAL PRECAUTIONS

- Precautions to be taken during handling or storage – Warning! Harmful if inhaled or absorbed. May cause dizziness and drowsiness. Don't inhale vapors. Use in adequate ventilated areas. Accidental contact should be washed immediately with plenty of water.



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## **I. WASTE DISPOSAL METHOD**

- Incinerate in a furnace where permitted under appropriate federal, state and local regulations.

## **J. REGULATORY INFORMATION.**

- STATUS ON SUBSTANCE LISTS  
Comprehensive Environmental Response Compensation and liability Act of 1989 (CERCLA) requires notification of the National Response Center of Release of quantities of Hazardous substance equal to or greater than the reportable quantities(RQ s) in 40 CFR 302.4.