



MATERIAL SAFETY DATA SHEET

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

Email : info@westers-ind.com

**SUBJECT : UPS F. 111
Scale Remover**

Page 1 of 3

Ups chemicals urges each customer or recipient of this MSDS to study it carefully to understand and become aware of the hazards associated with the product. The reader should consider consulting reference work are experts in ventilation, toxicology and fire prevention as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should :

- (1) notify its employees, agents, contractors and other who will use this information regarding hazards or safety.
- (2) Furnish the same information to each of its customers for the product
- (3) Request its customer to notify their employees, customers and users of the product about this information.

I. IDENTIFICATION

Product name : **UPS F. 111 Scale Remover**
Chemical name : Mixture

II. PHYSICAL DATA

1. Boiling point, 760 mmHg : >392 deg. F.
2. Solubility : Soluble in water
3. Specific Gravity : > 1
4. Vapor Density : > 1
5. pH : 0 – 2
6. Evaporation Rate : 1
7. Appearance : Reddish
8. Odor : Aciduous
9. Vapor Pressure at 20 deg.c : < 1 mmHg
10. % Volume by volume : 60%

III. HAZARDOUS DATA.

Component Name	% Approximately	TLV
HCL	40	500
Inhibitor	05	100

TLV. Threshold Limit Value



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Page 2 of 3

IV. FIRE AND EXPLOSION HAZARD DATA

- | | |
|---------------------------------------|----------|
| 1. Flash point | : N.A |
| 2. Extinguishing Media | : N.A |
| 3. Unusual fire and explosion hazards | : N.A |
| 4. Flammability in Air | : 7 - 15 |

V. REACTIVITY DATA

- | | |
|--|---|
| 1. Stability | : Stable |
| 2. Condition to avoid | : Flames, sparks & electrical arcs |
| 3. Incompatibility (Material to avoid) | : Alkaline earth metal like powdered Zn, Al & Be |
| 4. Hazardous Decomposition product | : Thermal decomposition may produce halogens acids & Phosgene |
| 5. Hazardous Polymerization | : N.A |

VI. TOXICITY AND FIRST AID

- | | |
|---|---|
| 1. Medical condition aggravated by exposure : | in case of over exposure seek medical attention immediately. |
| 2. Effects of acute toxicity : | N.A |
| 3. Swallowing : | May cause headache, nausea, vomiting, breathing difficulties and weakness, & may result in kidney damage by ingestion of large quantities of the product. |
| 4. Inhalation : | High vapor concentration may result in dizziness & head ache, etc. expose to fresh air. |
| 5. Skin contact : | warm skin immediately with plenty of water and apply soap & flush with water until the efficiency subsided. In case of severity contact a physician. |
| 6. Eye contact : | Remove from the exposure immediately & flush with plenty of water for 15 minute until the irritation is subsided. In case severity contact a physician. |
| 7. Notes to physician : | There is no specific antidote. Treatment of over exposure should be directed at the control of symptoms and the clinic condition. |



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Page 3 of 3

VII. SPILL OR LEAK PROCEDURES

Step 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.

VIII. SPECIAL PERSONAL PROTECTION

1. Respiratory protection : Use air respirators, facial masks etc.
2. Ventilation : Local exhaust in adequate.
3. Skin protection : Aprons, glove made of polythelene, or neoprene or rubber.
4. Eye protection : Safety glasses are recommended.
5. Other protection equipment : N.A

IX. SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage :

WARNING!!! Harmful if inhaled or absorbed through skin. Causes eye irritation.
May cause dizziness. Do Not inhale vapors. Use in adequate ventilated areas.
Accidental contact should be washed immediately with plenty of water.

X. WASTE DISPOSAL METHOD

Incinerate in a furnace where permitted under appropriate federal, State and Local Regulations.