

REVISION DATE: 01 January 2019 per GHS requirements

MATERIAL DATA SHEET
PM88 Tank and Tower Cleaner

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name: PM 88
Supplier: Panton McLeod Americas, PO Box 1525,Charlestown, RI 02813
Tel: 978-501-6967, info@pantonmcleod.com, www.pantonmcleod.com

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US Classification
 Skin Corr. 1B H314
 Eye Damage 1 H318

LABEL ELEMENTS

GHS-US labeling
 Hazard Pictograms



GHS05

Signal word: Danger
 Hazard Statements: H314 - Causes severe skin burns and eye damage
 Precautionary statements : P260 - Do not breathe mist, vapours, spray
 P280 - Wear protective gloves, eye protection, protective clothing, face protection
 P301+P330 +P331 - IF SWALLOWED Rinse mouth, DO NOT induce vomiting
 P303+p361+P353 - IF On SKIN (or hair) Remove immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340 - IF INHALED. Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 - If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - immediately call a POISON CENTER/doctor
 P363 - Wash contaminated clothing before reuse.
 PP405 - Store locked up.
 P501 - Dispose of contents/container to comply with local, state & federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains:

| Chemicals | % Conc | GHS-US Classification | Exposure | CAS | EINECS |
|--|--------|---|----------|-----------|-----------|
| Mixture of Inorganic and Organic Acids | <10 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 | 5ppm | 7647-01-0 | 231-595-7 |
| Quaternary Ammonium Disinfectant | <2 | | | | |
| Surfactants | <1 | | | | |

4. FIRST AID MEASURES

| <u>EXPOSURE ROUTE</u> | <u>SYMPTOM</u> | <u>TREATMENT</u> |
|-----------------------|----------------------------------|--|
| Inhalation | Irritation of breathing passages | Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete- seek medical attention |

| | | |
|--------------|---------------------------|--|
| Skin Contact | Irritation | Drench the skin with plenty of water, remove contaminated clothes and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention. |
| Eye Contact | Irritation | Irrigate thoroughly with water for at least 10 minutes If irritation persists, seek medical attention. |
| Ingestion | Irritation, stomach upset | Wash out mouth with water. Do not induce vomiting. If patient is conscious give water to drink. Seek medical attention. |

5. FIRE FIGHTING MEASURES

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| Suitable Extinguishers : Hazardous Combustion Products: Special Equipment for Fire Fighting: | Use extinguisher suitable to cause of fire Hydrogen Chloride Self-contained breathing apparatus and full protective clothing |
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6. ACCIDENTAL RELEASE MEASURES

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|--|---|
| Safety Precautions: Environmental Precautions : Clean up Procedure: | Wear appropriate PPE- See section 8 Hydrogen Chloride Self-contained breathing apparatus and full protective clothing |
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7. HANDLING AND STORAGE

HANDLING

| | |
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| Ventilation Recommended procedures and equipment | Good general ventilation. LEV may be required. Avoid contact with skin & eyes. Do not breath fumes. |
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STORAGE

| | |
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| Temperature range: Keep away from : Suitable storage media : | Ambient See section 10 High density polyethylene, rubber lined mild steel, PVC |
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|-------------------------|--------------------|------------------|
| Exposure Limits: | 5ppm (7mg/m3) STEL | Type: OES |
|-------------------------|--------------------|------------------|

PROTECTIVE MEASURES

| | |
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| Respiratory: Hand: Eye: Skin: Hygiene Measures: | Type approved RPE for nuisance acidic vapours PVC or rubber gloves Safety goggles Rubber boots, PVC overalls Always wash thoroughly after handling chemicals |
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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Appearance: Odor: pH: Flammability: Relative density: | Colourless to pale yellow fuming liquid Pungent 1<2 Not combustible 9.3 @ 15.5 degree C |
|--|---|

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Known hazardous reaction: | Prolonged contact can attack most common metals liberating hydrogen. Can react violently with oxidizing agents liberating chlorine. |
| Materials to avoid: | Alkalis, concentrated sulphuric acid, oxidizing agents, ammonias, amines. |
| Hazardous decomposition products: | Hydrogen Chloride |

11. TOXICOLOGICAL INFORMATION

Effects: Inhalation of large quantities of mist or vapour may cause irritation. Irritating to eyes, skin and mucous membranes. Repeated exposure may cause ulceration of nasal septum and gums.

12. ECOLOGICAL INFORMATION

Mobility: Highly volatile liquid, soluble in water, predicted to have high mobility in soil.
Degradability: Neutralized slowly by natural alkalinity.
Bioaccumulative Potential: Material does not bioaccumulate.
Aquatic Toxicity: Without neutralization large releases can be fatal to fish and other aquatic life.

13. DISPOSAL CONSIDERATIONS

Substance: Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Container: As substance.

14. TRANSPORT INFORMATION

| | <u>US DOT</u> | | <u>CANADA TDG</u> |
|----------------------|----------------------------|--|------------------------|
| Shipping Name | HYDROCHLORIC ACID SOLUTION | | HYDROCHLORIC ACID |
| Hazard Class | 8 | | 8 |
| UN Number | UN1789 | | UN1789 |
| Hazard Labels | 8-Corrosive Substances |  | 8-Corrosive Substances |
| Packing Group | II - MEDIUM DANGER | | II - MEDIUM DANGER |

DOT Special Provisions (49 CFR 172.102):

A3-For combination packaging, if glass inner packaging (including ampules) are used, they must be packed with absorbant material in tightly closed metal receptacles before packing in outer packaging.
A6-For combination packaging, if plastic inner packaging is used, they must be packed in tightly closed metal receptacles before packing in outer packaging.
B3- MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 Cargo tanks and DOT 57 Portable tanks are not authorized.
B15- Packaging must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance.
IB2 - Authorized IBCs: Metal (31A, 31B, and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1).
Additional requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1bar at 122F), or 130kPa at 55 C (1.3bar at 131F) are authorized.
N41 - metal construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.
T8 - 4 178.274 (d)(2) Normal.....Prohibited
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image)
Where: tr is the maximum mean bulk temperature during transport. tf is the temperature in degrees celsius of the liquid during filling and is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image)
Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59F) and 50 C (122F), respectively.
TP12 - This material is considered corrosive to steel.

DOT packaging Exceptions (49 CFR 173.xxx): 154
DOT packaging Non Bulk (49 CFR 173.xxx): 202
DOT packaging Bulk (49 CFR 173.xxx): 242

15. REGULATORY INFORMATION

Supply label Details:

Ref. GHS05

Label name:

PM88

Symbols:

Risk Phrases:/ Safety Phrases:

no risk or safety phrases stipulated

E.C. No:

231-595-7



Use of this material may be governed by the following regulations:

US Federal regulations:

SARA section 311/312 Hazard Classes, Immediate (acute) health hazard

Canada:

WHMIS Classification, Class E-Corrosive material

Users are advised to consult these regulations for further information.

The information contained in this data sheet does not constitute an assessment of workplace risks.

16. OTHER INFORMATION

This material is usually used for - Cleaning and Disinfection of Drinking Water Structures in accordance with Suppliers Instructions for Usage Manual.

Full text of H-phrases

Acute Tox. 4 (oral)
Eye dam., 1
Skin Corr. 1B
STOT SE 3

H302
H314
H318
H335

Acute toxicity (oral), category 4
Serious eye damage/eye irritation, category 1
Skin corrosion/irritation, category 1B
Specific target organ toxicity--Single exposure, Category 3, Respiratory tract irritation
Harmful if swallowed
Causes severe skin burns and eye damage
Causes severe eye damage
May cause respiratory irritation

NFPA health hazard:

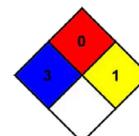
3 - short exposure could cause serious temporary or residual injury even though prompt medical attention was given

NFPA fire hazard:

0 - materials that will not burn

NFPA reactivity:

1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



MMISS III Rating

Health:

3 - Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability:

0 - Minimal Hazard

Physical:

1 - Slight hazard

Personal protection:

C

It must not be used for - Further details may be available on request from Panton McLeod Americas.

Legal Disclaimer - The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality of the specification of the product. The user must satisfy themselves that the product is entirely suitable for his purpose.

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