



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE

CHEMICAL NAME; HYDROCHLORIC ACID 28,32 & 36%

SUPPLIER; SOLUMETRICS LTD
UNIT 1B, SILEBY RD IND, EST
BARROW ON SOAR, LEICS LE12 8LP
TEL; 01509 815348,

2. COMPOSITION

CHEMICAL; HYDROCHLORIC ACID CONCENTRATION; APPROX 28%-36%

CAS; 7647-01-0
EINECS; 2315957
UN; 1789
CLASSIFICATION; 8
RISK; 34,37
SAFETY; 26,36/37/39,45

3. HAZARDS IDENTIFICATION;

MAIN HAZARD: CORROSIVE, CAUSES SEVERE INJURIES IN CASE OF CONTACT WITH EYES, INHALATION OR INGESTION.

4. FIRST AID MEASURES;

GENERAL ADVICE; REMOVE CONTAMINATED CLOTHING, SEEK MEDICAL ADVICE AFTER FIRST AID.

INHALATION; REMOVE FROM EXPOSURE, REST AND KEEP WARM. IN SEVERE CASES OR IF RECOVERY IS NOT RAPID SEEK MEDICAL HELP.

EYE CONTACT; IRRIGATE THOROUGHLY WITH WATER ONLY FOR AT LEAST 30 MINUTES. SEEK MEDICAL HELP.

SKIN CONTACT; DRENCH WITH PLENTY OF WATER, REMOVE CONTAMINATED CLOTHING CONTINUE DRENCHING WITH WATER. IN SEVERE CASES SEEK MEDICAL ASSISTANCE.

INGESTION; WASH MOUTH WITH WATER. **DO NOT CAUSE VOMITING.** IF CONSCIOUS GIVE WATER TO DRINK SEEK MEDICAL HELP.

5. FIRE FIGHTING;

SUITABLE EXTINGUISHING MEDIA;	N/A
HAZARDOUS COMBUSTION PRODUCTS;	NOT FLAMMABLE
SPECIAL EQUIPMENT;	WEAR PROTECTIVE CLOTHING
SPECIAL RISKS;	MAY EVOLVE HYDROGEN GAS IN CONTACT WITH CERTAIN SUBSTANCES

6. ACCIDENTAL RELEASE MEASURES;

PERSONAL PROTECTION; EYE/SKIN	WEAR SUITABLE PROTECTIVE CLOTHING, PROHIBIT CONTACT AND INHALATION OF VAPOURS.
ENVIRONMENTAL PROTECTION;	NEUTRALISE WITH SODA ASH, IF LOCAL REGULATIONS PERMIT, DILUTE AND RUN TO DRAIN. OTHERWISE CONTAIN AND TRANSFER TO SUITABLE CONTAINERS FOR REMOVAL BY A DISPOSAL COMPANY.
METHODS FOR CLEAN UP;	CONTAIN ANY SPILLS, TRANSFER TO LABELLED EMERGENCY CONTAINER; DISPOSE BY MEANS DETERMINED BY SAFETY OFFICER.

7. HANDLING AND STORAGE;

HANDLING: AVOID VAPOURS, HANDLE IN WELL-VENTILATED AREA.

TECHNICAL MEASURES;	GOOD VENTILATION, USE EQUIPMENT SUITABLE FOR STRONG ACIDS.
SAFETY HANDLING ADVICE;	GOOD VENTILATION.
STORAGE;	TEMPERATURE - AMBIENT
SUITABLE PACKAGING;	PLASTICS, PVC POLYPROPYLENE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION;

FOR HYDROGEN CHLORIDE GAS-

EXPOSURE LIMITS; 10 MINUTE TWA REFERENCE PERIOD; 5ppm

PROTECTIVE MEASURES; APPARATUS	RESPIRATORY;	SELF	CONTAINED	BREATHING
HAND;	RESISTANT GLOVES			
EYES;	GOGGLES AND FACE SHIELD			
SKIN;	WATERPROOF SUIT, APRON AND BOOTS			
HYGIENE;	ALWAYS WASH SKIN AFTER HANDLING CHEMICALS			

9. PHYSICAL AND CHEMICAL PROPERTIES;

APPEARANCE; COLOURLESS TO PALE YELLOW LIQUID
pH; <1 @ 1% SOLN
BOILING POINT; 108>°C AT 1BAR
FLAMMABILITY; NOT FLAMMABLE
RELATIVE DENSITY; 1.18 S.G
SOLUBILITY; MISCIBLE IN ALL PROPORTIONS

10. STABILITY AND REACTIVITY;

CONDITIONS/MATERIALS TO AVOID; ALKALI EARTH METALS, ALKALI COMPOUNDS, PHOSPHOROUS, PERMANGANATE, HEAT.

11. TOXICOLOGICAL INFORMATION;

HEALTH EFFECTS; INGESTION MAY RESULT IN PERFORATION OF DIGESTIVE TRACT, HAEMORRHAGE AND SEVERE INTERNAL BURNS. INHALATION OF MISTS MAY RESULT IN SEVERE BURNS TO THE RESPIRATORY TRACT. EYE CONTACT MAY RESULT IN SEVERE BURNS CAUSING PERMANENT EYE DAMAGE. SKIN CONTACT MAY RESULT IN SEVERE BURNS.

LC₅₀ (30min); 5666ppm RAT (HYDROGEN CHLORIDE VAPOUR)

12. ECOLOGICAL INFORMATION;

ECOTOXICITY; HARMFUL EFFECTS DUE TO pH SHIFT, HIGHLY TOXIC TO AQUATIC AND SOIL ORGANISMS LC₅₀ (96HR) INVERTEBRATES; 1.21mg/l
DEGRADABILITY; CAN CAUSE LONG TERM ADVERSE EFFECTS FOR THE AQUATIC ENVIRONMENT. HIGH pH AND SODIUM CONTENT HAS A POTENTIAL TO DAMAGE THE SOIL STRUCTURE.

AQUATIC TOXICITY; HIGHLY TOXIC TO AQUATIC ORGANISMS

13. DISPOSAL CONSIDERATIONS;

SUBSTANCE; VIA APPROVED CONTRACTOR

CONTAINER; AS SUBSTANCE

14. TRANSPORT INFORMATION;

UN NUMBER; 1789 CLASS; 8
PRIMARY HAZARD; CORROSIVE PACKING GRP; II
LABELS; CORROSIVE

15. OTHER INFORMATION;

LEGAL DISCLAIMER; THIS INFORMATION IS BASED UPON OUR KNOWLEDGE AT THE TIME THIS DATA SHEET WAS PREPARED. IT IS GIVEN IN GOOD FAITH, NO WARRANTY IS IMPLIED. THE USER MUST SATISFY HIMSELF AS TO THE PURPOSE THIS PRODUCT IS PUT TO AND THE POSSIBLE CHANGE IN CLASSIFICATION SHOULD THIS PRODUCT BE MIXED OR FORMULATED WITH OTHER COMPOUNDS.