

BLEACH TRAY

MATERIAL SAFETY DATA SHEET

WHW Plastics Ltd.

Therm Road, Cleveland Street,

Hull HU8 7BF,

Tel: 01482 329 154, Fax: 01482 217 140

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME: BLEACH TRAY

PRODUCT CODE: DG

MATERIAL NAME: ETHYLENE-VINYL ACETATE COPOLYMER

CHEMICAL FAMILY: ETHYLENE-BASED POLYMER

CHEMICAL NAME: ETHYLENE-VINYL ACETATE COPOLYMER

FORMULA: N/A

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME: ETHYLENE-VINYL ACETATE COPOLYMER

THE COMPOSITION OF THIS MIXTURE MAY BE PROPRIETARY INFORMATION. IN THE EVENT OF A MEDICAL EMERGENCY, COMPOSITIONAL INFORMATION WILL BE PROVIDED TO A PHYSICIAN OR NURSE. THIS PRODUCT IS HAZARDOUS AS DEFINED IN 29 CFR1910.1200, BASED ON THE FOLLOWING COMPOSITIONAL INFORMATION

OSHA HAZARD COMPONENT

ACGIH/TLV VINYL ACETATE

POSSIBLE HUMAN CARCINOGEN VINYL ACETATE

THE CAS REGISTRY NO. FOR ETHYLENE-VINYL ACETATE COPOLYMER IS 24937-78-8.

3. HAZARDS IDENTIFICATION:

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: PARTICULATES MAY SCRATCH EYE SURFACES/CAUSE MECHANICAL IRRITATION.

SKIN CONTACT: NEGLIGIBLE HAZARD AT AMBIENT TEMPERATURES (-18 TO 38 DEG C; 0-100 DEG F) EXPOSURE TO HOT MATERIAL MAY CAUSE THERMAL BURNS.

INHALATION: NEGLIGIBLE HAZARD AT AMBIENT TEMPERATURE(-18 TO 38 DEG C; 0-100 DEG F) VAPORS AND/OR AEROSOLS WHICH MAY BE FORMED AT ELEVATED TEMPERATURES MAY BE IRRITATING TO EYES AND RESPIRATORY TRACT.

INGESTION: MINIMAL TOXICITY

REV: 01 BY: AP DATE: 4/15/05

CHRONIC EFFECTS: THIS PRODUCT CONTAINS VINYL ACETATE MONOMER. NO CARCINOGEN EFFECTS WERE OBSERVED IN LONG TERM DRINKING WATER STUDIES IN RATS. LONG TERM INHALATION OF THIS CHEMICAL AT AIR CONDITIONS OF 600 PPM PRODUCED NASAL TREMORS IN RATS. MICE EXPOSED TO THE SAME CONDITIONS WERE NOT AFFECTED.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) EVALUATED VINYL ACETATE IN 1995 AND FOUND IT TO BE A POSSIBLE HUMAN CARCINOGEN, CLASSIFICATION 2B.

THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) HAS EVALUATED VINYL ACETATE AND FOUND IT TO BE A GROUP A3, ANIMAL CARCINOGEN. THE ACGIH ALSO REPORTED THAT AVAILABLE

EVIDENCE SUGGESTS THAT THE AGENT IS NOT LIKELY TO CAUSE CANCER IN HUMANS AT THE RECOMMENDED EXPOSURE LEVELS.

4. FIRST AID MEASURES:

EYE CONTACT:

THIS PRODUCT IS AN INERT SOLID. IF IN EYE, REMOVE AS ONE WOULD ANY FOREIGN OBJECT.

SKIN CONTACT:

FOR HOT PRODUCT, IMMEDIATELY IMMERSIVE IN OR FLUSH THE AFFECTED AREA WITH LARGE AMOUNTS OF COLD WATER TO DISSIPATE HEAT. COVER WITH CLEAN COTTON SHEETING OR GAUZE AND GET PROMPT MEDICAL ATTENTION. NO ATTEMPT SHOULD BE MADE TO REMOVE MATERIALS FROM SKIN OR TO REMOVE CONTAMINATED CLOTHING, AS THE DAMAGED FLESH CAN BE EASILY TORN.

INHALATION:

IN CASE OF ADVERSE EXPOSURE TO VAPORS/OR AEROSOLS FORMED AT ELEVATED TEMPERATURES, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION.

INGESTION

FIRST AID IS NORMALLY NOT REQUIRED.

5. FIRE FIGHTING MEASURES:

FLASH POINT: 649 DEG F NOTE: ESTIMATED, GREATER THAN

FLAMMABLE LIMITS: NOT APPLICABLE

AUTOIGNITION: NOT APPLICABLE

GENERAL HAZARD: SOLID MATERIAL, MAY BURN AT OR ABOVE FLASHPOINT, AND AIRBORNE DUST MAY EXPLODE IF IGNITED. TOXIC GASES WILL FORM UPON COMBUSTION. STATIC DISCHARGE, MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE.

FIREFIGHTING INSTRUCTIONS: USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES, PROTECT PERSONNEL, AND EXTINGUISH THE FIRE. RESPIRATORY AND EYE PROTECTION REQUIRED FOR FIRE FIGHTING PERSONNEL.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

OXYGEN-LEAN CONDITIONS MAY PRODUCE CARBON MONOXIDE AND IRRITATING SMOKE. ACETIC ACID

REV: 01 BY: AP DATE: 4/15/05

6. ACCIDENTAL RELEASE MEASURES:

LAND SPILL:

RECOVER SPILLED MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR RECYCLE OR DISPOSAL. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

WATER SPILL:

PLASTIC PELLETS ARE DEFINED BY THE USA EPA UNDER THE CLEAN WATER ACT (40CFR122.26) AS A "SIGNIFICANT MATERIAL" WHICH REQUIRES ANY INDUSTRIAL PLANT THAT MAY EXPOSE PELLETS TO STORM WATER TO SECURE A STORM WATER PERMIT. VIOLATIONS OF THE RULE CARRY THE SAME PENALTIES AS OTHER CLEAN WATER ACT VIOLATIONS. PELLETS FOUND IN STORM WATER RUNOFF ARE SUBJECT TO EPA REGULATIONS WITH THE POTENTIAL FOR SUBSTANTIAL FINES AND PENALTIES. SKIM FROM SURFACE. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS. RECOVER THE SPILLED MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR RECYCLE OR DISPOSAL.

7. HANDLING AND STORAGE:

ELECTROSTATIC ACCUMULATION HANDLING: YES, USE PROPER BONDING AND/OR GROUNDING PROCEDURE.

STORAGE TEMPERATURE: DEG F AMBIENT

LOADING/UNLOADING TEMPERATURE: DEG. F AMBIENT

STORAGE/TRANSPORT PRESSURE, MMHG: ATMOSPHERIC

LOADING/UNLOADING VISCOSITY, CST: SOLID

STORAGE AND HANDLING: KEEP CONTAINER CLOSED. HANDLE AND OPEN CONTAINERS WITH CARE. STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCE OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT. MATERIAL MAY ACCUMULATE STATIC CHARGES WHICH MAY CAUSE AN ELECTRICAL SPARK (IGNITION SOURCE). USE PROPER BONDING AND/OR GROUNDING PROCEDURES.

SHELF LIFE: 2 YEARS

8. PERSONAL PROTECTION:

EXPOSURE CONTROLS: LOCAL EXHAUST VENTILATION OF PROCESS EQUIPMENT MAY BE NEEDED TO CONTROL PARTICULATE EXPOSURES TO BELOW THE RECOMMENDED EXPOSURE LIMIT. SEE PERSONAL PROTECTION RECOMMENDATIONS.

PERSONAL PROTECTION: WHERE CONTACT MAY OCCUR WITH HOT MATERIAL, WEAR THERMAL RESISTANT GLOVES, ARM PROTECTION, AND A FACE SHIELD.

WHERE CONTACT IS LIKELY WITH OPEN SYSTEMS AT AMBIENT TEMPERATURES (-18 TO 38 DEG C, 0-100 DEG F) WEAR SAFETY GLASSES WITH SIDE SHIELDS.

REV: 01 BY: AP DATE: 4/15/05

WORKPLACE EXPOSURE GUIDELINES;;

OSHA REGULATION 29CF1910.1000 REQUIRES THE FOLLOWING PERMISSABLE EXPOSURE LIMITS:

5/MG/M3 (RESPIRABLE DUST), AND 15/MG/M3 (TOTAL DUST) BASED ON OSHA PEL FOR NUISANCE DUST. A TWA OF 10PPM (30MG/M3) AND A STEL OF 20 PPM (60MG/M3) FOR VINYL ACETATE. THE RECOMMENDED PERMISSABLE EXPOSURE LEVELS INDICATED ABOVE REFLECT THE LEVELS REVISED BY OSHA IN 1989 OR IN SUBSEQUENT REGULATORY ACTIVITY. ALTHOUGH THE 1989 LEVELS HAVE SINCE BEEN VACATED BY THE 11TH CIRCUIT COURT OF APPEALS, EXXONMOBIL CHEMICAL COMPANY RECOMMENDS THAT THE LOWER EXPOSURE LEVELS BE OBSERVED AS REASONABLE WORKER PROTECTION.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

A TWA OF 10/MG/M3 FOR INHALATION PARTICULATE (TOTAL DUST) AND A TWA OF 3 MG/M3 FOR RESPIRABLE PARTICULATE (TOTAL DUST) FOR PARTICULATES NOT OTHERWISE CLASSIFIED (PNOC). A TWA OF 10 PPM (35 MG/M3) AND A STEL OF 15 PPM (53 MG/M3) FOR VINYL ACETATE, WITH AN A3 DESIGNATION.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM: PELLETS

PHYSICAL STATE: SOLID

COLOR: OPAQUE WHITE TO TRANSPARENT

VAPOR PRESSURE, MMHG AT F: NOT AVAILABLE

MELTING POINT DEG. F: 210 TO 240 (99 TO 115C)

SOLUBILITY: INSOLUBLE

SPECIFIC GRAVITY AT F: .091-.96

BOILING POINT: N/A

VISCOSITY OF LIQUID: N/A

10. STABILITY AND REACTIVITY:

STABILITY: STABLE

CONDITIONS TO AVOID INSTABILITY: N/A
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION: N/A
MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: TEMPERATURES ABOVE
300 F (150 C) WITH FLUORINE HAZARDOUS DECOMPOSITION PRODUCTS: N/A

11. TOXICOLOGICAL INFORMATION:

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

12. ECOLOGICAL INFORMATION:

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

REV: 01 BY: AP DATE: 4/15/05

13. DISPOSAL CONSIDERATIONS:

PLEASE REFER TO SECTIONS 5, 6, AND 15 FOR DISPOSAL AND REGULATORY INFORMATION.

14. TRANSPORTATION INFORMATION:

NOT REGULATED UNDER US DEPARTMENT OF TRANSPORTATION.

15. REGULATORY INFORMATION:

CERCLA: IF THIS PRODUCT IS ACCIDENTALLY SPILLED, IT IS NOT SUBJECT TO ANY SPECIAL REPORTING UNDER THE REQUIREMENTS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA). WE RECOMMEND YOU CONTACT LOCAL AUTHORITIES TO DETERMINE IF THERE MAY BE OTHER LOCAL REPORTING REQUIREMENTS.

SARA TITLE III: UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: DELAYED HEALTH. THIS INFORMATION MAY BE SUBJECT TO THE PROVISIONS OF THE COMMUNITY RIGHT-TO-KNOW REPORTING REQUIREMENTS (40 CFR 370) IF THRESHOLD QUANTITY CRITERIA ARE MET. THIS COMPONENT CAS NO. MAXIMUM %
VINYL ACETATE 108-05-4 .2

16. OTHER INFORMATION:

HMS RATINGS: HEALTH FLAMMABILITY REACTIVITY

0 0 0

NFPA 1 1 0

0=MIMIMAL 1=SLIGHT 2=MODERATE 3=SERIOUS 4=SEVERE

Glenroe's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMS ratings are provided by WHW as a customer service.

THE CAS REGISTRY NO. FOR ETHYLENE-VINYL ACETATE COPOLYMER IS 24937-78-8. NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS NFPA 654 AND 68 INDICATE POSSIBLE EXPLOSION HAZARD OF DUST PARTICLES. CONFORM ACCORDINGLY.

AVOID ACCUMULATION OF DUST OR DUST CLOUDS; OPERATE HANDLING AND STORAGE SYSTEMS LEAK FREE, PRACTICE GOOD HOUSEKEEPING. KEEP FROM SOURCES OF IGNITION. DO NOT STORE NEAR HEAT, FLAME, OR STRONG OXIDANTS. ASSURE PROPER ELECTRICAL GROUNDING OF ALL HANDLING EQUIPMENT.

PRODUCT MAY ALSO CONTAIN VARYING LEVELS OF ADDITIVES, SUCH AS SLIP AND

ANTIBLOCKING AGENTS, ANTIOXIDANTS, STABILIZERS, AND CORROSION INHIBITORS.