

FOX VALLEY CHEMICAL COMPANY

5201 MANN DRIVE - P.O. BOX 129
RINGWOOD, IL. 60072

ORIGINAL DATE 09-06-79 REVISED 11-30-01

MATERIAL SAFETY DATA SHEET

CLEAN n SHINE

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER: FOX VALLEY CHEMICAL

INFORMATION: 815-653-2660

EMERGENCY : 800-325-3699

PRODUCT CLASS: BLEND

HMIS CLASSIFICATION:

TRADE NAME: CLEAN n SHINE

* HEALTH - 1

PRODUCT CODE: F181600

* FLAMMABILITY - 0

C A S #: SEE BELOW

* REACTIVITY - 0

SECTION II - HAZARDOUS INGREDIENTS

A HAZARD EVALUATION OF THIS PRODUCT HAS BEEN PERFORMED. THE COMPONENTS LISTED BELOW ARE IDENTIFIED AS HAZARDOUS CHEMICALS UNDER THE CRITERIA OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

INGREDIENTS:	CAS #	APPROX %
DIETHYLENE GLYCOL MONOETHYL ETHER		
2-(2ETHOXYETHOXY) ETHANOL-----	111-90-05	10 %
ZINC AMMONIUM CARBONATE COMPOUND-----		
38714 -47-5	1	5%
TRIBUTOXY PHOSPHATE-----	78-51-3	1 - 5 %
FORMALDEHYDE-----	50-00-00	0.01 %

SECTION III - PHYSICAL DATA

EVAPORATION RATE (nBUTYL, ACETATE=1):-----<1

VAPOR DENSITY (AIR =1): ----->1

SOLUBILITY IN WATER: -----DISPERSIBLE

pH:-----7-10

SPECIFIC GRAVITY (WATER=1): -----1.03

%NON-VOLATILES (BY WEIGHT): -----15-25

VAPOR PRESSURE-----NOT ESTABLISHED

APPROXIMATE BOILING POINT: -----0 F., -18C

APPEARANCE & ODOR: MILKY LIQUID, LOW VISCOSITY, AND MILD AMMONIACAL ODOR.

NOTE: THE PHYSICAL DATA PRESENTED ABOVE ARE TYPICAL VALUES AND SHOULD NOT BE CONSTRUED AS A SPECIFICATION.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

POINT: NOT APPLICABLE

TEST METHOD: SETAFLASH CLOSED CUP

EXTINGUISHING MEDIA: THIS IS A WATER BASED

PRODUCT AND IS NOT EXPECTED TO BURN UNTIL ALL THE WATER HAS BOILED AWAY. THE RESIDUAL SOLIDS AND/OR PRODUCT CONTAINER MAY SUPPORT

COMBUSTION. USE WATER, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES & PRECAUTIONS: FIRE FIGHTERS AND OTHERS WHO MAY BE EXPOSED TO THE PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED WITH NIOSH APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL PROTECTIVE CLOTHING.

PAGE - 1

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE KNOWN

SECTION V-A - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE:

SIGNS & SYMPTOMS OF OVER-EXPOSURE (ACUTE):

SIGNS & SYMPTOMS OF OVER-EXPOSURE (CHRONIC):

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: FLUSH EYES WITH WATER FOR AT LEAST 15 MINS. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH AFFECTED AREA WITH SOAP AND WATER. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN. WASH CONTAMINATED CLOTHING SEPARATELY BEFORE RE-USE.

INHALATION: REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK IMMEDIATE MEDICAL ATTENTION. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH.

INGESTION: SEEK MEDICAL ATTENTION UNLESS ADVISED OTHERWISE, INDUCE VOMITING BY GIVING EITHER SYRUP OF IPECAC, FOLLOWED BY 2 GLASSES OF WATER OR BY STICKING FINGER DOWN THROAT. DO NOT GIVE ANYTHING BY MOUTH IF THE PERSON IS DROWSY, UNCONSCIOUS, OR HAS A GAG REFLEX.

NOTE TO PHYSICIAN: TREATMENT SHOULD BE DIRECTED AT PREVENTING ABSORPTION, ADMINISTERING TO THE SYMPTOMS AS THEY OCCUR, AND PROVIDING SUPPORTIVE THERAPY.

SECTION V-B HEALTH EFFECTS

PRIMARY ROUTE(S) OF EXPOSURE:

EYES - YES SHIN - YES INHALATION - YES

EYE CONTACT: CAN CAUSE MILD TO MODERATE IRRITATION. THE SEVERITY OF REACTION DEPENDS ON DURATION OF EXPOSURE AND SEVERITY OF REACTION AND FIRST AID PROCEDURES ADMINISTERED.

SKIN CONTACT: IRRITATION CAN OCCUR FOLLOWING PROLONGED OR REPEATED CONTACT.

INHALATION: CAN CAUSE IRRITATION TO THE NOSE, THROAT, AND UPPER RESPIRATORY TRACT.

FOX VALLEY CHEMICAL COMPANY

5201 MANN DRIVE - P.O. BOX 129
RINGWOOD, IL. 60072

ORIGINAL DATE 09-06-79 REVISED 11-30-01

MATERIAL SAFETY DATA SHEET

CLEAN n SHINE

INGESTION: CAN CAUSE NAUSEA, VOMITING, AND GASTRO-INTESTINAL UPSET.

ADDITIONAL EFFECTS: DEPENDING ON THE ROUTE, FREQUENCY, AND DURATION OF EXPOSURE, TOXICITY MAY EFFECT IN THE FOLLOWING ORGANS AND/OR SYSTEMS: CENTRAL AND/OR PERIPHERAL NERVOUS SYSTEM.

AGGRAVATION OF EXISTING CONDITIONS: EXPOSURE TO THIS PRODUCT IS NOT EXPECTED TO CONTRIBUTE TO, WORSEN, OR AGGRAVATE ANY EXISTING MEDICAL CONDITIONS.

SECTION VI - REACTIVITY DATA

STABILITY: () UNSTABLE (X) STABLE

INCOMPATIBILITY: NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: IF HEATED TOO HIGH TEMPERATURES, THIS PRODUCT MAY EMIT THE FOLLOWING COMPOUNDS:

SMOKE - SOOT - TOXIC FUMES (e.g. CARBON DIOXIDE)

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: STOP DISCHARGE, IF IT CAN BE PERFORMED SAFELY, AND CONTAIN MATERIAL. IF A SUBSTANTIAL QUANTITY IS SPILLED, RECOVER WITH PUMP OR VACUUM TRUCK. EXPLOSION-PROOF EQUIPMENT SHOULD BE USED IF THIS PRODUCT IS FLAMMABLE OR COMBUSTIBLE (SEE SECTION VII). OTHERWISE, USE AN ABSORBENT SUCH AS FULLER'S EARTH, CLAY OR OTHER MATERIAL IN A SUITABLE CONTAINER FOR DISPOSAL.

DO NOT FLUSH INTO SEWER, STREAM OR OTHER BODIES OF WATER.

PRECAUTIONS: IF THE AIRBORNE CONCENTRATION EXCEEDS ESTABLISHED EXPOSURE LIMITS (TLV OR PEL), IF HIGH AIRBORNE CONCENTRATION CAN OCCUR, EVACUATE EMPLOYEES AND VENTILATE THE AREA. A SUPPLIED AIR RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS (SCBA) SHOULD BE USED FOR ENTRY INTO ENCLOSED SPACES, OR IN AREAS WITH INADEQUATE VENTILATION.

WASTE DISPOSAL METHOD: IF DISCARDED IN ITS ORIGINAL UNUSED FORM, THIS PRODUCT SHOULD BE MANAGED (STORED-TREATED-DISPOSED-ETC), AT AN AUTHORIZED FACILITY, IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. BE SURE TO CONTACT APPROPRIATE GOVERNMENT ENVIRONMENTAL AGENCIES IF FURTHER DISPOSAL GUIDANCE IS REQUIRED.

OF THE METHODS OF DISPOSAL CURRENTLY AVAILABLE, IT IS RECOMMENDED THAT AN ALTERNATIVE BE SELECTED ACCORDING TO THE FOLLOWING ORDER OF

PREFERENCE. BASED UPON ENVIRONMENTAL ACCEPTABILITY.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: WHEN AIRBORNE CONCENTRATIONS ARE EXCESSIVE, WEAR HIOSH/MSHA APPROVED EQUIPMENT. DETERMINE THE APPROPRIATE TYPE BY CONSULTING THE RESPIRATOR MANUFACTURER. OBSERVE THE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSH/MSHA OR THE MANUFACTURER.

PROTECTIVE CLOTHING: SKIN EXPOSURE SHOULD BE MINIMIZED AS GOOD INDUSTRIAL PRACTICE. THE USE OF PROTECTIVE GLOVES AND CLOTHING IS THEREFORE, RECOMMENDED.

PAGE - 2

EYE PROTECTION: GLASSES WITH SIDE SHIELDS.
VENTILATION: MINIMIZE EXPOSURE BY PROVIDING ADEQUATE VENTILATION. GENERAL DILUTION VENTILATION MAY BE ACCEPTABLE. HOWEVER, LOCAL EXHAUST VENTILATION IS RECOMMENDED WHEN VAPORS, MISTS, OR DUSTS CAN BE RELEASED.
OTHER PROTECTIVE EQUIPMENT: PERSONAL HYGIENE - WASH THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING, DRINKING, SMOKING, OR USING REST ROOM FACILITIES. WASH CONTAMINATED GOGGLES, FACE SHIELD AND GLOVES. PROFESSIONALLY LAUNDER CONTAMINATED CLOTHING. DISCARD CONTAMINATED SHOES.

AIRBORNE EXPOSURE LIMITS:

FORMALDEHYDE: ACGIH TLV-TWA: 1 ppm 1.2 mg/m³
STEL: 2 ppm 2.5 mg/m³

OSHA PEL: 0.75 ppm

STEL: 2 ppm

OSHA: 0.5 ppm, ACTION LEVEL

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN A COOL, DRY, WELL VENTILATED AREA. PROTECT FROM FREEZING. DO NOT STORE ABOVE 120 F./ 49 C.

CONTAINER USE PROCEDURES: NO SPECIAL PRECAUTIONS ARE NEEDED. FOLLOW GOOD MANUFACTURING AND HANDLING PRACTICES.

EMPTY CONTAINER PRECAUTIONS: THIS CONTAINER CAN BE HAZARDOUS WHEN EMPTY, BECAUSE IT CAN RETAIN PRODUCT RESIDUES. THEREFORE, DO NOT REUSE CONTAINER FOR FOOD, CLOTHING, OR PRODUCTS FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN CONTACT MAY OCCUR.

SECTION X DISCLAIMER OF LIABILITY

FOX VALLEY CHEMICAL COMPANY

5201 MANN DRIVE - P.O. BOX 129

RINGWOOD, IL. 60072

ORIGINAL DATE 09-06-79 REVISED 11-30-01

MATERIAL SAFETY DATA SHEET

CLEAN n SHINE

A BULLETIN SUCH AS THIS CANNOT BE EXPECTED TO COVER ALL POSSIBLE INDIVIDUAL SITUATIONS. AS THE USER HAS THE RESPONSIBILITY TO PROVIDE A SAFE WORK PLACE. ALL ASPECTS OF AN INDIVIDUAL OPERATION SHOULD BE EXAMINED TO DETERMINE IF, OR WHERE, PRECAUTIONS IN ADDITION TO THOSE DESCRIBED HEREIN ARE REQUIRED. ANY HEALTH HAZARD AND SAFETY INFORMATION CONTAINED HEREIN SHOULD BE PASSED ON TO YOUR CUSTOMERS OR EMPLOYEES, AS THE CASE MAY BE.

DISCLAIMER OF LIABILITY-

THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. ALL CHEMICALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST. FINAL DETERMINATION OF SUITABILITY OF THE CHEMICAL IS THE SOLE RESPONSIBILITY OF THE USER. USERS OF ANY CHEMICAL SHOULD SATISFY THEMSELVES THAT THE CONDITIONS AND METHODS OF USE ASSURE THAT THE CHEMICAL IS USED SAFELY. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A RECOMMENDATION FOR USE IN VIOLATION OF ANY PATENTS OR OF APPLICABLE LAWS OR REGULATIONS.