

SHANDON INC DBA SHANDON LIPSHAW -- 230034, EA-65 -- 6550-01-449-4657

===== Product Identification =====

Product ID:230034, EA-65  
MSDS Date:07/09/1998  
FSC:6550  
NIIN:01-449-4657  
Status Code:A  
MSDS Number: CLKVR  
=== Responsible Party ===  
Company Name:SHANDON INC DBA SHANDON LIPSHAW  
Address:171 INDUSTRY DRIVE  
City:PITTSBURGH  
State:PA  
ZIP:15275  
Country:US  
Info Phone Num:412-788-1133 INFO 800-245-6212  
E  
mergency Phone Num:813-979-0626 (CHEM-TEL INC)  
CAGE:17602  
=== Contractor Identification ===  
Company Name:SHANDON INC DBA SHANDON LIPSHAW  
Address:171 INDUSTRY DRIVE  
Box:City:PITTSBURGH  
State:PA  
ZIP:15275  
Country:US  
Phone:412-788-1133 INFO 800-245-6212  
CAGE:17602

===== Composition/Information on Ingredients =====

Ingred Name:METHANOL  
CAS:67-56-1  
RTECS #:PC1400000  
Minumum % Wt:50.  
Maxumum % Wt:60.  
OSHA PEL:260 MG/M3;200 PPM  
ACGIH TLV:262 MG/M3;200 PPM  
ACGIH STEL:328 MG/M3;250 PP

M  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ETHYLENE GLYCOL  
CAS:107-21-1  
RTECS #:KW2975000  
Minumum % Wt:20.  
Maxumum % Wt:30.  
ACGIH STEL:C127 MG/M3;C50 PPM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:GLACIAL ACETIC ACID  
CAS:64-19-7  
RTECS #:AF1225000  
&lt; Wt:1.  
OSHA PEL:25 MG/M3;10 PPM  
ACGIH TLV:25 MG/M3;10 PPM  
ACGIH STEL:37 MG/M3;15 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:EOSIN Y  
CAS:548-26-5  
RTECS #:DH6832500  
&lt; Wt:1.

Ingred Name:PHOSPHOTUNGSTIC ACID  
CAS:134  
3-93-7  
&lt; Wt:1.

Ingred Name:LIGHT GREEN SF YELLOWISH  
CAS:5141-20-8  
RTECS #:BQ4900000  
&lt; Wt:1.

===== Hazards Identification =====

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:EYE: SPLASHES & HIGH CONCENTRATIONS  
OF VAPORS CAN IRRITATE EYES. SKIN: MAY GIVE IRRITATION WITH  
REDNESS. BOTH METHANOL & ETHYLENE GLYCOL CAN BE ABSORBED THROUGH  
SKIN & PROLONGE

D OR REPEATED EXPOSURES CAUSE TOXIC EFFECTS (SEE INHALATION) & DEGREASE THE SKIN. INHALATION: INHALATION OF HIGH CONCENTRATIONS OF VAPORS MAY IRRITATE MUCOUS MEMBRANES IN THE AIRWAYS. INGESTION: TOXIC IF SWALLOWED. LONG TERM: PROLONGED OR FREQUENT EXPOSURE TO VAPORS OF VOC'S MAY RESULT IN DAMAGE TO LIVER, KIDNEYS, BLOOD OR CENTRAL NERVOUS SYSTEM & THE OPTICAL NERVE. PROLONGED OR FREQUENT CONTACT MAY CAUSE CHRONIC EYE IRRITATION. METHANOL CAN DAMAGE THE GENES.

Explanation of

Carcinogenicity: NO DATA PROVIDED BY MANUFACTURER

Effects of Overexposure: EYE: BLURRED VISION. INHALATION: HEADACHE, TIREDNESS, NAUSEA, VOMITING, AND DIZZINESS. INHALATION CAN CAUSE PNEUMONIA. BE AWARE THAT SYMPTOMS (DYSPNOEA) CAN OCCUR SEVERAL HOURS AFTER CONTACT. INGESTION: DIZZINESS, HEADACHE, NAUSEA, VOMITING, VISUAL DISTURBANCE, BLINDNESS, CONVULSIONS, DAMAGE OF THE KIDNEYS AND DEATH.

Medical Condition Aggravated by Exposure: NO DATA PROVIDED BY MANUFACTURER

=====

===== First Aid Measures =====

First Aid: EYE: IMMEDIATELY FLUSH WITH WATER OR PHYSIOLOGICAL SALT WATER FOR AT LEAST 15 MINUTES. REMEMBER TO REMOVE CONTACT LENSES, IF ANY. CONTINUE TO FLUSH ON THE WAY TO THE DOCTOR. SKIN: IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND WASH WITH WATER AND SOAP FOR 15 MINUTES. INHALATION: REMOVE TO FRESH AIR. KEEP AT REST. ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. INGESTION: RINSE MOUTH AND DRINK

PLENTRY WATER. PROVOKE VOMITING. BEND OVER, HEAD DOWN TO AVOID VOMIT IN THE LUNGS. SEEK MEDICAL ADVICE IN ALL CASES. BURNS: FLUSH WITH WATER UNTIL PAIN CEASES.

===== Fire Fighting Measures =====

Flash Point: =24.C, 75.2F

APPROXIMATE

Extinguishing Media: SUITABLE: USE DRY CHEMICAL OR CARBON DIOXIDE FOR SMALL FIRES. USE "ALCOHOL" TYPE FOAM FOR LARGE FIRES. NOT SUITABLE: WATER.

Fire Fighting Procedures: WHEN EXTINGUISHING FIRES USE SELF CONTAINED

BREATHING APPARATUS. REMOVE CONTAINERS IF POSSIBLE OR USE  
WATERSPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL. DO NOT BREATHE  
SMOKE GASES.

Unusual Fire/Explosion Hazard:THIS PRODUCT MAY FORM HAZARDOUS  
DECOMPOSITION PRODUCTS SUCH AS OXIDES OF CARBON. VAPORS ARE HEAVIER  
THAN AIR AND CAN TRAVEL ALONG THE GROUND TO AN IGNITION SOURCE AND  
FLASHBACK TO VAPOR SOURCE.

===== Accidental Release Measures =====

Spill Release Procedures:PROVIDE FOR SUFFICIENT VENTILATION/RESPIRATORY

PROTECTION. REMOVE SOURCES OF IGNITION. VENTILATE AREA OF LEAK OR  
SPILL. DO NOT EMPTY INTO DRAINS. IF THE PRODUCT CONTAMINATES LAKES,  
RIVERS OR SEWAGES, INFORM APPROPRIATE AUTHORITIES IN ACCORDANCE  
WITH LOCAL REGULATIONS. ABSORB SPILLED LIQUID WITH INERT MATERIAL  
AND PLACE SPILLAGE IN A PLASTIC CONTAINER FOR DISPOSAL. FLUSH SPILL  
AREA WITH WATER.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

===== Handling and Storage =====  
=====

Handling and Storage Precautions:SAFE STORAGE: WELL CLOSED IN ORIGINAL  
CONTAINER AWAY FROM STRONG OXIDIZERS. KEEP CLOSED WHEN NOT IN USE.  
STORE IN A FLAMMABLE LIQUID STORAGE AREA.

Other Precautions:NO DATA PROVIDED BY MANUFACTURER

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IN CASE OF BADLY VENTILATED AREAS USE AN  
APPROVED SELF CONTAINED BREATHING APPARATUS. THE VAPOURS ARE NOT  
EFFECTIVELY ABSORBED BY CARBON FILTER

S

Ventilation:AVOID BREATHING OF VAPORS. PROVIDE ADEQUATE VENTILATION

Protective Gloves:USE GLOVES OF BUTYL RUBBER OR 4H

Eye Protection:WEAR TIGHT FITTING SAFETY GOGGLES

Other Protective Equipment:THERE SHALL BE ACCESS TO WATER AND EYE WASH  
FOUNTAIN.

Work Hygienic Practices:AFTER USE WASH WITH PLENTY OF WATER AND SOAP

Supplemental Safety and Health

AVOID BREATHING OF VAPORS AND ALL CONTACT WITH SKIN, EYES AND CLOTHES.

FLAMMABLE, DO NOT USE NEAR FIRE OR SPARKS, DO NOT SMOKE. FIRST AID:

GENERAL: IF ANY SYMPTOMS OCCUR: SEEK MEDICAL ADVICE. SHOW THIS SAFETY DATA SHEET TO A PHYSICIAN OR EMERGENCY WARD.

===== Physical/Chemical Properties =====

HCC:F5

Boiling Pt:=95.6C, 204.1F

Spec Gravity:0.918

Appearance and Odor:DARK GREEN LIQUID WITH PINK CAST, CHARACTERISTIC METHANOL ODOUR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS AND BASES

Stabil

ity Condition to Avoid:STABLE UNDER AMBIENT CONDITIONS. VAPORS CAN BE IGNITED BY A SPARK, A HOT SURFACE OR A GLOW.

Hazardous Decomposition Products:COMBUSTION MAY PRODUCE OXIDES OF CARBON

===== Toxicological Information =====

Toxicological Information:PROLONGED OR FREQUENT EXPOSURE TO VAPORS OF VOC'S MAY RESULT IN DAMAGE TO LIVER, KIDNEYS, BLOOD OR CENTRAL NERVOUS SYSTEM (BRAIN DAMAGE) AND THE OPTICAL NERVE. PROLONGED OR FREQUENT CONTACT MAY CAU

SE CHRONIC EYE IRRITATION. EXCRETED IN

BREAST MILK. METHANOL CAN DAMAGE THE GENES. EMBRYO INJURIES HAVE BEEN SEEN IN PREGNANT RATS WHO HAVE INHALED METHANOL. SAME EFFECTS ARE SUSPECTED FOR HUMANS. ADDITIONAL TOXICOLOGICAL INFORMATION: THE PRODUCT WAS CLASSIFIED IN TOXICOLOGICAL TERMS ON THE BASIS OF THE RESULTS OF THE CALCULATION PROCEDURE OUTLINED WITHIN GENERAL DIRECTIVE ON PREPARATIONS (88/379/EEC ).

===== Ecological Information =====

=

Ecological:ETHYLENE GLYCOL: LOG POW: 100 MG/L (FISH, 96H). DO NOT EMPTY INTO WATERS DRAINS.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL SHOULD BE ACCORDING TO LOCAL, STATE, OR NATIONAL LEGISLATION. DISPOSE OF THROUGH AUTHORITY FACILITIES OR PASS TO CHEMICAL DISPOSAL COMPANY. EWC-CODE: 160503

===== MSDS Transport Information =====

Transport Information:ROAD/RAIL (ADR/RID): CLASS: 3; ITME NO.:

32;  
LETTER: C; UN NO.: 1992; PROPER SHIPPING NAME: FLAMMABLE LIQUID,  
TOXIC, N.O.S. (METHANOL). SEA (IMDG): IMDG CLASS: 3; IMDG PAGE NO.:  
3346-1; UN NO.: 1992; EMS: 3-07; PACK. GROUP: III.

===== Regulatory Information =====

SARA Title III Information:NO DATA PROVIDED BY MANUFACTURER  
Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER  
State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information  
to their  
particular situation.