Class C Solutions Group

A business of MSC Industrial Supply Co.

Safety Data Sheet

Supply Co. - INDUSTRIAL GLASS CLEANER (AEROSOL)

Document Nbr: 067656 Class C Parts IDs BD1496,BD1496-1

MATERIAL SAFETY DATA SHEET

-----SECTION 1: PRODUCT & COMPANY IDENTIFICATION -----

PRODUCT NAME: INDUSTRIAL GLASS CLEANER (AEROSOL)

PRODUCT NUMBER (S): BD1496

PRODUCT USE: GLASS CLEANER

DISTRIBUTED BY: CLASS C SOLUTIONS GROUP A BUSINESS OF MSC INDUSTRIAL SUPPLY CO. 75 MAXESS ROAD MELVILLE, NY 11747

GENERAL INFORMATION: 866-438-6767 M-F 8 AM - 5 PM

24-HR EMERGENCY: 800-424-9300 (US) 703-527-3887 (INTERNATIONAL)

-----SECTION 2: HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

CAUTION: MAY CAUSE EYE IRRITATION, CONTENTS UNDER PRESSURE.

APPEARANCE & ODOR: CLEAR LIQUID, AMMONIA ODOR

POTENTIAL HEALTH EFFECTS:

ACUTE EFFECTS:

EYE: MAY CAUSE MILD IRRITATION INCLUDING REDNESS AND BURNING.

SKIN:

NO ADVERSE EFFECTS EXPECTED FOR A SINGLE EXPOSURE. PROLONGED OR REPEATED CONTACT CAN CAUSE IRRITATION AND DEFATTING OF THE SKIN.

INHALATION:

INHALATION OF A SMALL AMOUNT IS NOT EXPECTED TO CAUSE HEALTH EFFECTS. PROLONGED EXPOSURE MAY CAUSE DIZZINESS OR THROAT IRRITATION.

INGESTION:

INGESTION OF A SMALL AMOUNT IS NOT EXPECTED TO CAUSE HEALTH EFFECTS. INGESTION OF A LARGER AMOUNT MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT AS WELL AS MORE SEVERE HEALTH EFFECTS INCLUDING BLOOD DISORDERS.

CHRONIC EFFECTS: NONE KNOWN

TARGET ORGANS:

BY INGESTION: BLOOD, LIVER, KIDNEYS

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN OR EYE DISORDERS

SEE SECTION 11 FOR TOXICOLOGY AND CARCINOGENICITY INFORMATION ON PRODUCT INGREDIENTS.

-----SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS -----

COMPONENT	CAS NUMBER	% BY WT
WATER	7732-18-5	80 - 90
LIQUEFIED PETROLEUM GAS	68476-86-8	5 - 10
2-BUTOXYETHANOL	111-76-2	1 - 3
ETHANOL	64-17-5	1 - 3
AMMONIA	7664-41-7	<1
METHANOL	67-56-1	<0.2

-----SECTION 4: FIRST AID MEASURES -----

EYE CONTACT:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. CALL A PHYSICIAN IF IRRITATION PERSISTS.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH SOAP AND WATER. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CONTAMINATED CLOTHING PRIOR TO RE-USE.

INHALATION:

REMOVE PERSON TO FRESH AIR. KEEP PERSON CALM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN.

INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

NOTE TO PHYSICIANS:

THIS PRODUCT CONTAINS 2-BUTOXYETHANOL WHICH, IF INGESTED IN SIGNIFICANT QUANTITIES, MAY RESULT IN RED BLOOD CELL HEMOLYSIS.

-----SECTION 5: FIRE-FIGHTING MEASURES -----

FLAMMABLE PROPERTIES:

THIS PRODUCT IS NOT FLAMMABLE IN ACCORDANCE WITH AEROSOL FLAMMABILITY DEFINITIONS.

FLASH POINT: NONE

AUTOIGNITION TEMPERATURE: 446 DEG. F / 230 DEG. C

UPPER EXPLOSIVE LIMIT: ND LOWER EXPLOSIVE LIMIT: ND

FIRE AND EXPLOSION DATA:

SUITABLE EXTINGUISHING MEDIA:

USE EXTINGUISHING AGENTS APPROPRIATE FOR SURROUNDING FIRE.

PRODUCTS OF COMBUSTION: NONE

EXPLOSION HAZARDS:

AEROSOL CONTAINERS, WHEN EXPOSED TO HEAT FROM FIRE, MAY BUILD PRESSURE AND EXPLODE.

PROTECTION OF FIRE-FIGHTERS:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED, NIOSH-APPROVED BREATHING APPARATUS FOR PROTECTION AGAINST SUFFOCATION AND POSSIBLE TOXIC DECOMPOSITION PRODUCTS. PROPER EYE AND SKIN PROTECTION SHOULD BE PROVIDED. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL AND TO KNOCK DOWN VAPORS WHICH MAY RESULT FROM PRODUCT DECOMPOSITION.

-----SECTION 6: ACCIDENTAL RELEASE MEASURES -----

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8.

ENVIRONMENTAL PRECAUTIONS:

TAKE PRECAUTIONS TO PREVENT CONTAMINATION OF GROUND AND SURFACE WATERS. DO NOT FLUSH INTO SEWERS OR STORM DRAINS.

METHODS FOR CONTAINMENT & CLEAN-UP:

DIKE AREA TO CONTAIN SPILL. VENTILATE THE AREA WITH FRESH AIR. IF IN CONFINED SPACE OR LIMITED AIR CIRCULATION AREA, CLEAN-UP WORKERS SHOULD WEAR APPROPRIATE

RESPIRATORY PROTECTION. RECOVER OR ABSORB SPILLED MATERIAL USING AN ABSORBENT DESIGNED FOR CHEMICAL SPILLS. PLACE USED ABSORBENTS INTO PROPER WASTE CONTAINERS.

-----SECTION 7: HANDLING AND STORAGE -----

HANDLING PROCEDURES:

USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH SKIN AND EYES. WASH HANDS AFTER USE. DO NOT EXPOSE AEROSOL CONTAINERS TO HEAT OR FLAME. DO NOT INCINERATE CONTAINER. USE CAUTION AROUND ENERGIZED EQUIPMENT. THE METAL CONTAINER WILL CONDUCT ELECTRICITY IF IT CONTACTS A LIVE SOURCE. THIS MAY RESULT IN INJURY TO THE USER FROM ELECTRICAL SHOCK AND/OR FLASH FIRE. FOR PRODUCT USE INSTRUCTIONS, PLEASE SEE THE PRODUCT LABEL.

STORAGE PROCEDURES:

STORE IN A COOL DRY AREA OUT OF DIRECT SUNLIGHT. AEROSOL CANS MUST BE MAINTAINED BELOW 120 DEG. F / 49 DEG. C TO PREVENT CANS FROM RUPTURING.

AEROSOL STORAGE LEVEL: I

-----SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION -----

EXPOSURE GUIDELINES:

COMPONENT	OSH	Α	ACG	ΙH	ОТН	ER	UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
WATER	NE	NE	NE	NE	NE		
LIQUEFIED PETROLEUM GAS	1000	NE	1000	NE	NE		PPM
2-BUTOXYETHANOL	50 (s)	NE	20	NE	NE		PPM
AMMONIA	50	NE	25	35	NE		PPM
ETHANOL	1000	NE	NE	1000	NE		PPM
METHANOL	200	NE	200	250	NE		PPM

N.E. - NOT ESTABLISHED

- (C) CEILING
- (S) SKIN
- (V) VACATED

CONTROLS AND PROTECTION:

ENGINEERING CONTROLS: AREA SHOULD HAVE VENTILATION TO PROVIDE FRESH AIR. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT THE SOURCE, PREVENTING DISPERSION INTO THE GENERAL WORK AREA. USE MECHANICAL MEANS IF NECESSARY TO MAINTAIN VAPOR LEVELS BELOW THE EXPOSURE GUIDELINES. IF WORKING IN A CONFINED SPACE, FOLLOW APPLICABLE OSHA REGULATIONS.

RESPIRATORY PROTECTION:

NONE REQUIRED FOR NORMAL WORK WHERE ADEQUATE VENTILATION IS PROVIDED. IF ENGINEERING CONTROLS ARE NOT FEASIBLE OR IF EXPOSURE EXCEEDS THE APPLICABLE EXPOSURE LIMITS, USE NIOSH-APPROVED SELF-CONTAINED POSITIVE PRESSURE RESPIRATORS IN LOW CIRCULATION AREAS AND FOR EMERGENCIES. AIR MONITORING IS NEEDED TO DETERMINE ACTUAL EMPLOYEE EXPOSURE LEVELS.

EYE/FACE PROTECTION:

FOR NORMAL CONDITIONS, WEAR SAFETY GLASSES. WHERE THERE IS REASONABLE PROBABILITY OF LIQUID CONTACT, WEAR SPLASH-PROOF GOGGLES.

SKIN PROTECTION:

USE PROTECTIVE GLOVES SUCH AS NITRILE OR RUBBER. ALSO, USE FULL PROTECTIVE CLOTHING IF THERE IS PROLONGED OR REPEATED CONTACT OF LIQUID WITH SKIN.

-----SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES -----

PHYSICAL STATE: LIQUID

COLOR: CLEAR

ODOR: AMMONIA

ODOR THRESHOLD: ND

SPECIFIC GRAVITY: 0.9952

INITIAL BOILING POINT: APPROX. 212 DEG. F / 100 DEG. C

FREEZING POINT: APPROX. 30 DEG. F / -1 DEG. C

VAPOR PRESSURE: ND

VAPOR DENSITY: >1 (AIR = 1)

EVAPORATION RATE: SLOW

SOLUBILITY: SOLUBLE IN WATER

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

PH: 10.5

VOLATILE ORGANIC COMPOUNDS:

WT %: 9.6 G/L: 95.1 LBS./GAL: 0.8 STABILITY: STABLE

CONDITIONS TO AVOID:

KEEP AWAY FROM HEAT, DIRECT SUNLIGHT, OPEN FLAMES OR SPARKS. DROPPING OF CONTAINERS MAY CAUSE BURSTING.

INCOMPATIBLE MATERIALS: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

POSSIBILITY OF HAZARDOUS REACTIONS: NO

-----SECTION 11: TOXICOLOGICAL INFORMATION -----

LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. THE FOLLOWING INFORMATION IS AVAILABLE FOR COMPONENTS OF THIS PRODUCT OR IS CALCULATED FROM COMPONENT DATA.

ACUTE TOXICITY:

COMPONENT ORAL LD50 (RAT) DERMAL LD50 (RABBIT) INHALATION LC50 (RAT)

GLASS CLEANER 14,201 MG/KG 14,759 MG/KG 7998 MG/L/4H

(CALCULATED)

CHRONIC TOXICITY:

COMPONENT	OSHA CARCINOGEN	IARC CARCINOGEN	NTP CARCINOGEN	IRRITANT	SENSITIZER
WATER	NO	NO	NO	NO	NO
LIQUEFIED PETROLEUM GAS	NO	NO	NO	NO	NO
2-BUTOXYETHANOL	NO	NO	NO	EYE, SKIN	NO
AMMONIA	NO	NO	NO	EYE, SKIN, RESPIRATORY	UNKNOWN
ETHANOL	NO	NO	NO	EYE	NO
METHANOL	NO	NO	NO	EYE	NO

REPRODUCTIVE TOXICITY: SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

TERATOGENICITY: NO INFORMATION AVAILABLE

MUTAGENICITY: NO INFORMATION AVAILABLE

SYNERGISTIC EFFECTS: NO INFORMATION AVAILABLE

-----SECTION 12: ECOLOGICAL INFORMATION -----

ECOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. THE FOLLOWING INFORMATION IS AVAILABLE FOR COMPONENTS OF THIS PRODUCT.

ECOTOXICITY:

2-BUTOXYETHANOL:

96 HR LC50, BLUEGILL SUNFISH: 1490 MG/L

24 HR LC50, DAPHNIA: 1720 MG/L

AMMONIUM HYDROXIDE:

48 HR EC50 WATER FLEA: 0.66 MG/L

PERSISTENCE / DEGRADABILITY: OVER 98% OF PRODUCT INGREDIENTS ARE BIODEGRADABLE.

BIOACCUMULATION / ACCUMULATION: NO INFORMATION AVAILABLE

MOBILITY IN ENVIRONMENT: NO INFORMATION AVAILABLE

-----SECTION 13: DISPOSAL CONSIDERATIONS -----

WASTE CLASSIFICATION:

THE DISPENSED LIQUID PRODUCT IS NOT A HAZARDOUS WASTE.

AEROSOL CONTAINERS SHOULD BE FULLY EMPTIED AND DEPRESSURIZED BEFORE DISPOSAL. EMPTY AEROSOL CONTAINERS MAY BE RECYCLED.

ALL DISPOSAL ACTIVITIES MUST COMPLY WITH FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. LOCAL REGULATIONS MAY BE MORE STRINGENT THAN STATE, PROVINCIAL OR NATIONAL REQUIREMENTS.

-----SECTION 14: TRANSPORT INFORMATION -----

US DOT (GROUND): UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, LIMITED QUANTITY

ICAO/IATA (AIR): UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, LIMITED QUANTITY

IMO/IMDG (WATER): UN1950, AEROSOLS, 2.2, LIMITED QUANTITY

SPECIAL PROVISIONS: NONE

-----SECTION 15: REGULATORY INFORMATION -----

U.S. FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA):
ALL INGREDIENTS ARE EITHER LISTED ON THE TSCA INVENTORY OR ARE EXEMPT.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): REPORTABLE QUANTITIES (RQ'S) EXIST FOR THE FOLLOWING INGREDIENTS: NONE

SPILLS OR RELEASES RESULTING IN THE LOSS OF ANY INGREDIENT AT OR ABOVE ITS RQ REQUIRE IMMEDIATE NOTIFICATION TO THE NATIONAL RESPONSE CENTER (800-424-8802) AND TO YOUR LOCAL EMERGENCY PLANNING COMMITTEE.

SUPERFUND AMENDMENTS REAUTHORIZATION ACT (SARA) TITLE III: SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS): NONE

SECTION 311/312 HAZARD CATEGORIES: FIRE HAZARD NO REACTIVE HAZARD NO RELEASE OF PRESSURE YES ACUTE HEALTH HAZARD YES CHRONIC HEALTH HAZARD NO

SECTION 313 TOXIC CHEMICALS:

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372: 2-BUTOXYETHANOL (GLYCOL ETHERS CATEGORY): 2.85%

CLEAN AIR ACT:

SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS): NONE

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:
THIS PRODUCT IS REGULATED BY THE HAZARD COMMUNICATIONS STANDARD.

CANADIAN REGULATIONS:

CONTROLLED PRODUCTS REGULATIONS:

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

WHMIS HAZARD CLASS: A, D2A, D2B

CANADIAN DSL INVENTORY:

ALL INGREDIENTS ARE EITHER LISTED ON THE DSL INVENTORY OR ARE EXEMPT.

EUROPEAN UNION REGULATIONS:

ROHS COMPLIANCE:

THIS PRODUCT IS COMPLIANT WITH DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 27 JANUARY 2003. THIS PRODUCT DOES NOT CONTAIN ANY OF THE RESTRICTED SUBSTANCES AS LISTED IN ARTICLE 4(1) OF THE ROHS DIRECTIVE.

ADDITIONAL REGULATORY INFORMATION: NONE

-----SECTION 16: OTHER INFORMATION -----

HMIS(R*) (II): HEALTH 1

FLAMMABILITY 0

REACTIVITY 0

PPE B

RATINGS RANGE FROM 0 (NO HAZARD) TO 4 (SEVERE HAZARD)

NFPA

1

0

0

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CHANGES SINCE LAST REVISION:

SECTION 11: REPRODUCTIVE TOXICITY SECTION 15: WHMIS HAZARD CLASS

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ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CAS: CHEMICAL ABSTRACT SERVICE

CFR: CODE OF FEDERAL REGULATIONS

DOT: DEPARTMENT OF TRANSPORTATION

DSL: DOMESTIC SUBSTANCE LIST

G/L: GRAMS PER LITER

HMIS: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IATA: INTERNATIONAL AIR TRANSPORT ASSOCIATION

ICAO: INTERNATIONAL CIVIL AVIATION ORGANIZATION

IMDG: INTERNATIONAL MARITIME DANGEROUS GOODS

IMO: INTERNATIONAL MARITIME ORGANIZATION

LBS./GAL: POUNDS PER GALLON

LC: LETHAL CONCENTRATION

LD: LETHAL DOSE

NA: NOT APPLICABLE

ND: NOT DETERMINED

NIOSH: NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY & HEALTH

NFPA: NATIONAL FIRE PROTECTION ASSOCIATION

NTP: NATIONAL TOXICOLOGY PROGRAM

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PMCC: PENSKY-MARTENS CLOSED CUP

PPE: PERSONAL PROTECTION EQUIPMENT

PPM: PARTS PER MILLION

ROHS: RESTRICTION OF HAZARDOUS SUBSTANCES

STEL: SHORT TERM EXPOSURE LIMIT

TCC: TAG CLOSED CUP

TWA: TIME WEIGHTED AVERAGE

WHMIS: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

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