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SDS

Common Name: COMMERCIAL ABC DRY CHEMICAL (FIRE EXTINGUISHING AGENT, PRESSURIZED AND NON-PRESS**Manufacturer:** BADGER FIRE PROTECTION**SDS Revision Date:** 4/10/2015**SDS Format:** GHS-US**Grainger Item Number(s):** 1DGV4, 1FBJ9, 1FBK1, 1RK32, 2EHE6, 32UW20, 36MA20, 36MA21, 36MA22, 36MA23, 36MA24, 36MA25, 4T300, 4T301, 4T889, 4XP78, 4XP79, 4XP83, 4XP84, 4XP87, 4XP88, 4XP89, 4XP90, 5T899, 5T903, 5T904, 6AJW7**Manufacturer Model Number(s):**

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B
BADGER
BADGER FIRE PROTECTION

SAFETY DATA SHEET

COMMERCIAL ABC DRY CHEMICAL
(FIRE EXTINGUISHING AGENT, PRESSURIZED AND NON-PRESSURIZED)

1. IDENTIFICATION



PRODUCT NAME:
COMMERCIAL ABC DRY CHEMICAL
(FIRE EXTINGUISHING AGENT, PRESSURIZED AND NON-PRESSURIZED)

OTHER NAMES: MULTI-PURPOSE, AMMONIUM PHOSPHATE, MONOAMMONIUM PHOSPHATE

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

IDENTIFIED USES: FIRE EXTINGUISHING AGENT

RESTRICTIONS ON USE: CONSULT APPLICABLE FIRE PROTECTION CODES

COMPANY IDENTIFICATION:

BADGER FIRE PROTECTION
944 GLENWOOD STATION LANE, SUITE 303
CHARLOTTESVILLE, VA 22901
USA

CUSTOMER INFORMATION NUMBER: (434)-964-3200

EMERGENCY TELEPHONE NUMBER:

CHEMTREC NUMBER:

(800) 424-9300
(703) 527-3887 (INTERNATIONAL)

ISSUE DATE: APRIL 10, 2015

SUPERSEDES DATE: FEBRUARY 9, 2015

SAFETY DATA SHEET PREPARED IN ACCORDANCE WITH OSHA'S HAZARD COMMUNICATION
STANDARD (29 CFR 1910.1200) AND THE GLOBALLY HARMONIZED SYSTEM OF
CLASSIFICATION AND LABELING OF CHEMICALS (GHS)

2. HAZARD IDENTIFICATION



THIS SDS COVERS THE PRODUCT LISTED ABOVE AS SOLD IN PRESSURIZED AND
NON-PRESSURIZED CONTAINERS. GHS CLASSIFICATIONS FOR BOTH FORMS ARE
LISTED BELOW.

GHS CLASSIFICATION - PRESSURIZED:

HAZARD CLASSIFICATION: GAS UNDER PRESSURE - COMPRESSED GAS

LABEL ELEMENTS:

HAZARD SYMBOLS: GAS CYLINDER

SIGNAL WORD: WARNING

HAZARD STATEMENTS: CONTENTS UNDER PRESSURE; MAY EXPLODE IF HEATED.

PRECAUTIONARY STATEMENTS:

PREVENTION: NONE

RESPONSE: NONE

STORAGE:

PROTECT FROM SUNLIGHT.
STORE IN WELL-VENTILATED PLACE.

DISPOSAL: NONE

GHS CLASSIFICATION: NON - PRESSURIZED

HAZARD CLASSIFICATION:

THIS PRODUCT IS CLASSIFIED AS NOT HAZARDOUS IN ACCORDANCE WITH THE GLOBALLY
HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING (GHS).

LABEL ELEMENTS:

HAZARD SYMBOLS: NONE

SIGNAL WORD: NONE

HAZARD STATEMENTS: NONE

PRECAUTIONARY STATEMENTS:

PREVENTION: NONE

RESPONSE: NONE

STORAGE: NONE

DISPOSAL: NONE

OTHER HAZARDS:

MICA MAY CONTAIN SMALL QUANTITIES OF QUARTZ (CRYSTALLINE SILICA) AS AN IMPURITY. PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST AT CONCENTRATIONS EXCEEDING THE OCCUPATIONAL EXPOSURE LIMITS MAY INCREASE THE RISK OF DEVELOPING A DISABLING LUNG DISEASE KNOWN AS SILICOSIS. IARC FOUND LIMITED EVIDENCE FOR PULMONARY CARCINOGENICITY OF CRYSTALLINE SILICA IN HUMANS.

SPECIFIC CONCENTRATION LIMITS:

THE VALUES LISTED BELOW REPRESENT THE PERCENTAGES OF INGREDIENTS OF UNKNOWN TOXICITY.

ACUTE ORAL TOXICITY: <10%

ACUTE DERMAL TOXICITY: <10%

ACUTE INHALATION TOXICITY: <10%

ACUTE AQUATIC TOXICITY: <10%

3. COMPOSITION/INFORMATION ON INGREDIENTS



THIS PRODUCT IS A MIXTURE.

COMPONENT	CAS NUMBER	CONCENTRATION
MONOAMMONIUM PHOSPHATE	7722-76-1	55 - 65%
AMMONIUM SULFATE	471-34-1	30 - 40%
MICA	12001-26-2	<5%
CLAY	1332-58-7	<5%
AMORPHOUS SILICA	7631-86-9	<5%
DYE	NA	<1%

NOTE: PRESSURIZED PRODUCT USES NITROGEN OR COMPRESSED AIR AS THE EXPELLANT.

4. FIRST - AID MEASURES



DESCRIPTION OF NECESSARY FIRST-AID MEASURES:

EYES:

IMMEDIATELY FLOOD THE EYE WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, HOLDING THE EYE OPEN. OBTAIN MEDICAL ATTENTION IF SORENESS OR REDNESS PERSISTS.

SKIN:

WASH SKIN THOROUGHLY WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:

DILUTE BY DRINKING LARGE QUANTITIES OF WATER AND OBTAIN MEDICAL ATTENTION.

INHALATION:

MOVE VICTIM TO FRESH AIR. OBTAIN MEDICAL ATTENTION IMMEDIATELY FOR ANY BREATHING DIFFICULTY.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

ASIDE FROM THE INFORMATION FOUND UNDER DESCRIPTION OF NECESSARY FIRST AID MEASURES (ABOVE) AND INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, NO ADDITIONAL SYMPTOMS AND EFFECTS ARE ANTICIPATED.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIANS: TREAT SYMPTOMATICALLY.

5. FIRE - FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:**

THIS PREPARATION IS USED AS AN EXTINGUISHING AGENT AND THEREFORE IS NOT A PROBLEM WHEN TRYING TO CONTROL A FIRE. USE EXTINGUISHING AGENT APPROPRIATE TO OTHER MATERIALS INVOLVED. KEEP PRESSURIZED CONTAINERS AND SURROUNDINGS COOL WITH WATER SPRAY AS THEY MAY RUPTURE OR BURST IN THE HEAT OF A FIRE.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

PRESSURIZED CONTAINERS MAY EXPLODE IN HEAT OF FIRE.

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:

WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS AS APPROPRIATE FOR SPECIFIC FIRE CONDITIONS.

6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

WEAR APPROPRIATE PROTECTIVE CLOTHING. PREVENT SKIN AND EYE CONTACT. REMOVE LEAKING CONTAINER TO A SAFE PLACE. VENTILATE THE AREA.

ENVIRONMENTAL PRECAUTIONS:

PREVENT LARGE QUANTITIES OF THE MATERIAL FROM ENTERING DRAINS OR WATERCOURSES.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

SWEEP UP OR VACUUM AND TRANSFER INTO SUITABLE CONTAINERS FOR RECOVERY OR DISPOSAL.

7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:**

WEAR APPROPRIATE PROTECTIVE CLOTHING. PREVENT SKIN AND EYE CONTACT.

CONDITIONS FOR SAFE STORAGE:

PRESSURIZED CONTAINERS SHOULD BE PROPERLY STORED AND SECURED TO PREVENT

FALLING OR BEING KNOCKED OVER. DO NOT DRAG, SLIDE OR ROLL PRESSURIZED CONTAINERS. DO NOT DROP PRESSURIZED CONTAINERS OR PERMIT THEM TO STRIKE AGAINST EACH OTHER. NEVER APPLY FLAME OR LOCALIZED HEAT DIRECTLY TO ANY PART OF THE PRESSURIZED OR PLASTIC CONTAINER. STORE PRESSURIZED AND PLASTIC CONTAINERS AWAY FROM HIGH HEAT SOURCES. STORAGE AREA SHOULD BE: - COOL - DRY - WELL VENTILATED - UNDER COVER - OUT OF DIRECT SUNLIGHT

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



CONTROL PARAMETERS: EXPOSURE LIMITS ARE LISTED BELOW, IF THEY EXIST.

MICA:

ACGIH TLV: 3 MG/M3 TWA, MEASURED AS RESPIRABLE FRACTION OF THE AEROSOL.

OSHA PEL: 20 MPPCF, <1% CRYSTALLINE SILICA

CLAY AS KAOLIN, RESPIRABLE FRACTION:

ACGIH TLV: 2 MG/M3 TWA

OSHA PEL:

15 MG/M3 TWA, TOTAL DUST

5 MG/M3 TWA, RESPIRABLE FRACTION

NUISANCE DUST LIMIT:

OSHA PEL:

50 MPPCF OR 15 MG/M3 TWA, TOTAL DUST

15 MPPCF OR 5 MG/M3 TWA, RESPIRABLE FRACTION

APPROPRIATE ENGINEERING CONTROLS

USE WITH ADEQUATE VENTILATION. IF THIS PRODUCT IS USED IN A PRESSURIZED SYSTEM, THERE SHOULD BE LOCAL PROCEDURES FOR THE SELECTION, TRAINING, INSPECTION AND MAINTENANCE OF THIS EQUIPMENT. WHEN USED IN LARGE VOLUMES, USE LOCAL EXHAUST VENTILATION.

INDIVIDUAL PROTECTION MEASURES:

RESPIRATORY PROTECTION:

NOT NORMALLY REQUIRED. USE DUST MASK WHERE DUSTINESS IS PREVALENT, OR TLV IS EXCEEDED. IN OXYGEN DEFICIENT ATMOSPHERES, USE A SELF CONTAINED BREATHING APPARATUS, AS AN AIR PURIFYING RESPIRATOR WILL NOT PROVIDE PROTECTION.

SKIN PROTECTION: GLOVES

EYE/FACE PROTECTION: CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

BODY PROTECTION: NORMAL WORK WEAR.

9. PHYSICAL AND CHEMICAL PROPERTIES



NON-PRESSURIZED:

APPEARANCE:

PHYSICAL STATE: SOLID (POWDER)

COLOR: PALE YELLOW

ODOR: ODORLESS

ODOR THRESHOLD: NO DATA AVAILABLE

PH: NOT APPLICABLE

SPECIFIC GRAVITY: NO DATA AVAILABLE

BOILING RANGE/POINT (DEG. C/F): NOT APPLICABLE

MELTING POINT (DEG. C/F): NO DATA AVAILABLE

FLASH POINT (PMCC) (DEG. C/F): NOT FLAMMABLE

VAPOR PRESSURE: NO DATA AVAILABLE

EVAPORATION RATE (BUAC=1): NO DATA AVAILABLE

SOLUBILITY IN WATER: NO DATA AVAILABLE

VAPOR DENSITY (AIR = 1): NOT APPLICABLE

VOC (G/L): NONE

VOC (%): NONE

PARTITION COEFFICIENT (N-OCTANOL/WATER): NO DATA AVAILABLE

VISCOSITY: NO DATA AVAILABLE

AUTO-IGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE

UPPER EXPLOSIVE LIMIT: NO DATA AVAILABLE

LOWER EXPLOSIVE LIMIT: NO DATA AVAILABLE

FLAMMABILITY (SOLID, GAS): NO DATA AVAILABLE

EXPELLANT - NITROGEN:

APPEARANCE:

PHYSICAL STATE: COMPRESSED GAS

COLOR: COLORLESS

ODOR: NONE

ODOR THRESHOLD: NO DATA AVAILABLE

PH: NOT APPLICABLE

SPECIFIC GRAVITY: 0.075 LB/FT3 @70 DEG. F AS VAPOR

BOILING RANGE/POINT (DEG. C/F): -196 DEG. C/-321 DEG. F

MELTING POINT (DEG. C/F): NO DATA AVAILABLE

FLASH POINT (PMCC) (DEG. C/F): NOT FLAMMABLE

VAPOR PRESSURE: NO DATA AVAILABLE

EVAPORATION RATE (BUAC=1): NO DATA AVAILABLE

SOLUBILITY IN WATER: NO DATA AVAILABLE

VAPOR DENSITY (AIR = 1): NOT APPLICABLE

VOC (G/L): NONE

VOC (%): NONE

PARTITION COEFFICIENT (N-OCTANOL/WATER): NO DATA AVAILABLE

VISCOSITY: NOT APPLICABLE

AUTO-IGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE

UPPER EXPLOSIVE LIMIT: NOT EXPLOSIVE

LOWER EXPLOSIVE LIMIT: NOT EXPLOSIVE

FLAMMABILITY (SOLID, GAS): NOT FLAMMABLE

10. STABILITY AND REACTIVITY



REACTIVITY:

PRESSURIZED CONTAINERS MAY RUPTURE OR EXPLODE IF EXPOSED TO HEAT.

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS TO AVOID:

EXPOSURE TO DIRECT SUNLIGHT - CONTACT WITH INCOMPATIBLE MATERIALS

INCOMPATIBLE MATERIALS:

STRONG OXIDIZING AGENTS - STRONG ACIDS - SODIUM HYPOCHLORITE

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF CARBON - AMMONIA - OXIDES OF PHOSPHORUS - NITROGEN OXIDES

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

MONOAMMONIUM PHOSPHATE:

ORAL LD50 (RAT) 5750 MG/KG

DERMAL LD50 (RABBIT) >5000 MG/KG

INHALATION LC50 (RAT): 5.1 MG/L

AMMONIUM SULFATE:

ORAL LD50 (RAT): 4250 MG/KG

DERMAL LD50 (RABBIT): >2000 MG/KG

MICA:

ORAL LD50 (RAT): >2000 MG/KG

AMORPHOUS SILICA:

ORAL LD50 (RAT): >5000 MG/KG

DERMAL LD50 (RABBIT): >2000 MG/KG

CLAY:

ORAL LD50 (RAT): >5000 MG/KG

DERMAL LD50 (RABBIT): >5000 MG/KG

NITROGEN: SIMPLE ASPHYXIAN

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:

MONOAMMONIUM PHOSPHATE:

AVAILABLE DATA INDICATES THIS COMPONENT IS NOT EXPECTED TO CAUSE TARGET ORGAN EFFECTS AFTER A SINGLE EXPOSURE.

AMMONIUM SULFATE:

AVAILABLE DATA INDICATES THIS COMPONENT IS NOT EXPECTED TO CAUSE TARGET ORGAN EFFECTS AFTER A SINGLE EXPOSURE.

NITROGEN:

EXPOSURE TO NITROGEN GAS AT HIGH CONCENTRATIONS CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. BREATHING VERY HIGH CONCENTRATIONS CAN CAUSE DIZZINESS, SHORTNESS OF BREATH, UNCONSCIOUSNESS OR ASPHYXIATION.

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEAT EXPOSURE:

MONOAMMONIUM PHOSPHATE:

AVAILABLE DATA INDICATES THIS COMPONENT IS NOT EXPECTED TO CAUSE TARGET ORGAN EFFECTS AFTER REPEAT EXPOSURE.

AMMONIUM SULFATE:

AVAILABLE DATA INDICATES THIS COMPONENT IS NOT EXPECTED TO CAUSE TARGET ORGAN EFFECTS AFTER REPEAT EXPOSURE.

SERIOUS EYE DAMAGE/IRRITATION:

MONOAMMONIUM PHOSPHATE: NOT IRRITATING (RABBIT)

AMMONIUM SULFATE: NOT IRRITATING (RABBIT)

MICA: NOT IRRITATING (RABBIT)

SKIN CORROSION/IRRITATION:

MONOAMMONIUM PHOSPHATE: NOT IRRITATING IN RABBIT TEST STUDY

AMMONIUM SULFATE: NOT IRRITATING (RABBIT)

MICA: NOT IRRITATING (RABBIT)

RESPIRATORY OR SKIN SENSITIZATION:

MONOAMMONIUM PHOSPHATE:

NOT SKIN SENSITIZING BASED ON TEST (MOUSE LOCAL LYMPHNODE ASSAY (LLNA)) ON AN ANALOGOUS COMPOUND

AMMONIUM SULFATE: NOT SENSITIZING IN GUINEA PIG MAXIMIZATION TEST

CARCINOGENICITY:

MICA MAY CONTAIN SMALL QUANTITIES OF QUARTZ (CRYSTALLINE SILICA) AS AN IMPURITY. PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST AT CONCENTRATIONS EXCEEDING THE OCCUPATIONAL EXPOSURE LIMITS MAY INCREASE THE RISK OF DEVELOPING A DISABLING LUNG DISEASE KNOWN AS SILICOSIS. IARC HAS CLASSIFIED SILICA DUST, CRYSTALLINE, IN THE FORM OF QUARTZ OR CRISTOBALITE AS 1 (CARCINOGENIC TO HUMANS).

GERM CELL MUTAGENICITY:

MONOAMMONIUM PHOSPHATE:

NOT MUTAGENIC IN THE MOUSE LYMPHOMA CELLS IN MAMMALIAN CELL GENE MUTATION ASSAY

AMMONIUM SULFATE:

NEGATIVE RESULTS IN AMES TEST, IN VITRO MAMMALIAN CHROMOSOME ABERRATION TEST, AND MAMMALIAN CELL GENE MUTATION ASSAY.

REPRODUCTIVE TOXICITY:**MONOAMMONIUM PHOSPHATE:**

AVAILABLE DATA INDICATES THIS COMPONENT IS NOT EXPECTED TO CAUSE REPRODUCTIVE TOXICITY OR BIRTH DEFECTS.

AMMONIUM SULFATE:

AVAILABLE DATA INDICATES THIS COMPONENT IS NOT EXPECTED TO CAUSE REPRODUCTIVE TOXICITY OR BIRTH DEFECTS.

ASPIRATION HAZARD: NOT AN ASPIRATION HAZARD.

12. ECOLOGICAL INFORMATION

**ECOTOXICITY:****MONOAMMONIUM PHOSPHATE:**

LC50 RAINBOW TROUT: >100 MG/L 96H

LC50 WATER FLEA: 1790 MG/L 72H (SIMILAR SUBSTANCE)

MOBILITY IN SOIL: NO RELEVANT STUDIES IDENTIFIED.

PERSISTENCE/DEGRADABILITY: NO RELEVANT STUDIES IDENTIFIED.

BIOACCUMULATIVE POTENTIAL: NO RELEVANT STUDIES IDENTIFIED.

OTHER ADVERSE EFFECTS: NO RELEVANT STUDIES IDENTIFIED.

13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:**

DISPOSE OF CONTAINER IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL REGULATIONS.

14. TRANSPORT INFORMATION



SAFETY DATA SHEET INFORMATION IS INTENDED TO ADDRESS A SPECIFIC MATERIAL AND NOT VARIOUS FORMS OR STATES OF CONTAINMENT. SPECIFIC VOLUMES, PRESSURES OR HARDWARE CONFIGURATIONS CONTAINING SUCH MATERIALS CAN DICTATE VARIOUS DIFFERENT HAZARD CLASSIFICATIONS FOR TRANSPORTATION AND LABELING REQUIREMENTS. UNDER FEDERAL REGULATIONS ONLY TRAINED AND QUALIFIED INDIVIDUALS ARE PERMITTED TO LABEL AND SHIP PRODUCTS FOLLOWING THE APPLICABLE DEPARTMENT OF TRANSPORTATION (DOT), FEDERAL AVIATION ADMINISTRATION (FAA), TRANSPORT CANADA (TC), INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG) OR INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA) REQUIREMENTS.

15. REGULATORY INFORMATION



UNITED STATES TSCA INVENTORY:

THIS PRODUCT CONTAINS INGREDIENTS THAT ARE LISTED ON OR EXEMPT FROM LISTING ON THE EPA TOXIC SUBSTANCE CONTROL ACT CHEMICAL SUBSTANCE INVENTORY.

CANADA DSL INVENTORY:

ALL INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE DOMESTIC SUBSTANCE LIST (DSL) OR THE NON-DOMESTIC SUBSTANCE LIST (NDSL) OR ARE EXEMPT FROM LISTING.

SARA TITLE III SECT. 311/312 CATEGORIZATION:

PRESSURIZED: PRESSURE HAZARD

SARA TITLE III SECT. 311/312 CATEGORIZATION:

NON-PRESSURIZED: NONE

SARA TITLE III SECT. 313:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS THAT ARE LISTED IN SECTION 313 AT OR ABOVE DE MINIMIS CONCENTRATIONS.

16. OTHER INFORMATION

NFPA RATINGS:

NFPA CODE FOR HEALTH	1
NFPA CODE FOR FLAMMABILITY	0
NFPA CODE FOR REACTIVITY	0
NFPA CODE FOR SPECIAL HAZARDS	NONE

HMIS RATINGS:

HMIS CODE FOR HEALTH	1
HMIS CODE FOR FLAMMABILITY	0
HMIS CODE FOR PHYSICAL HAZARD	0
HMIS CODE FOR PERSONAL PROTECTION	SEE SECTION 8

*CHRONIC

LEGEND:

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
CAS#: CHEMICAL ABSTRACTS SERVICE NUMBER
EC50: EFFECT CONCENTRATION 50%
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
LC50: LETHAL CONCENTRATION 50%
LD50: LETHAL DOSE 50%
N/A: DENOTES NO APPLICABLE INFORMATION FOUND OR AVAILABLE
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL: PERMISSIBLE EXPOSURE LIMIT
STEL: SHORT TERM EXPOSURE LIMIT
TLV: THRESHOLD LIMIT VALUE
TSCA: TOXIC SUBSTANCE CONTROL ACT

REVISION DATE: APRIL 10, 2015

REPLACES: FEBRUARY 9, 2015

CHANGES MADE: UPDATED TO GHS CLASSIFICATION.

INFORMATION SOURCE AND REFERENCES

THIS SDS IS PREPARED BY HAZARD COMMUNICATION SPECIALISTS BASED ON INFORMATION PROVIDED BY INTERNAL COMPANY REFERENCES.

PREPARED BY: ENVIRONET LLC.

THE INFORMATION AND RECOMMENDATIONS PRESENTED IN THIS SDS ARE BASED ON

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