

**SAFETY DATA SHEET**

**PRODUCT: DUSTBUSTER WATER**

**Page 1**

**SECTION 01: PRODUCT AND COMPANY INFORMATION**

MANUFACTURER/SUPPLIER .....	B.S.C. INC.
MANUFACTURER'S/SUPPLIERS ADDRESS.....	109 IBER RD., UNIT #3, OTTAWA, ON K2S 0X5 613-744-8896
PRODUCT NAME .....	DUSTBUSTER WATER
PRODUCT USE .....	DUST MOP TREATMENT
EMERGENCY PHONE NUMBER.....	CANUTEC 1-613-996-6666

**SECTION 02: HAZARDS IDENTIFICATION**



ROUTE OF ENTRY: SKIN CONTACT .....	DIRECT CONTACT WILL PRODUCE SEVERE IRRITATION AND/OR CHEMICAL BURNS WITH POSSIBLE IRREVERSIBLE DAMAGE.
SKIN ABSORPTION .....	N.AV.
EYE CONTACT.....	DIRECT CONTACT WILL PRODUCE SEVERE IRRITATION AND/OR CHEMICAL BURNS WITH POSSIBLE IRREVERSIBLE DAMAGE.
INHALATION.....	SOLVENT VAPORS OR MISTS OF PRODUCT MAY CAUSE IRRITATION OF MUCOUS MEMBRANES. PROLONGED INHALATION OF SOLVENT VAPORS MAY PRODUCE DROWSINESS, LASSITUDE AND INABILITY TO CONCENTRATE.
INGESTION .....	INGESTION CAN CAUSE IMMEDIATE BURNING PAIN IN THE MOUTH, THROAT AND ABDOMEN; SEVERE SWELLING OF THE LARYNX. INGESTION CAN CAUSE SKELETAL MUSCLE PARALYSIS AF THE ABILITY TO BREATHE; CIRCULATORY SHOCK; AND/OR CONVULSIONS. MAY BE FATAL IF INGESTED. SOLVENT.
EFFECTS/SYMPTOMS OF ACUTE EXPOSURE .....	SEE ABOVE.
EFFECTS/SYMPTOMS OF CHRONIC EXPOSURE....	SEE ABOVE.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE.....	N.AV.

**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS HAZARDS IDENTIFICATION**

HAZARDOUS INGREDIENTS	C.A.S. #	%	TLV	LD50	LC50
N-ALKYL(C12-16 )-N,N-DI METHYL-N-BENZYLAMMONIUM CHLORIDE	68424-85-1	<1	N.AV.	SEE SECTION 11	SEE SECTION 11
PROPYLENE GLYCOL	57-55-6	10 – 30	SEE SECTION 11	SEE SECTION 11	SEE SECTION 11

**SECTION 04: FIRST AID MEASURES**

SKIN CONTACT .....	WASH WITH AMOUNTS OF RUNNING WATER, AND SOAP IF AVAILABLE, FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET IMMEDIATE MEDICAL ATTENTION. WASH CLOTHING AND DECONTAMINATE SHOES BEFORE REUSE.
EYE CONTACT.....	FLUSH EYES WITH AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION. IF PHYSICIAN IS NOT AVAILABLE, FLUSH FOR AN ADDITIONAL 15 MINUTES AND THEN TRANSPORT VICTIM TO MEDICAL CARE.
INHALATION.....	REMOVE FROM AREA TO FRESH AIR. IF NOT ARTIFICIAL ION. IF VICTIM IS HAVING TROUBLE BREATHING, GIVE SUPPLEMENTAL OXYGEN, IF AVAILABLE. GET IMMEDIATE MEDICAL ATTENTION.
INGESTION .....	IF SWALLOWED, 3 4 GLASSES OF MILK (IF UNAVAILABLE, WATER). DO NOT INDUCE VOMITING. IF VOMIT OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. HAVE PHYSICIAN DETERMINE IF PATIENT 'S CONDITION ALLOWS FOR INDUCTION OF VOMITING OR

NOTES TO PHYSICIAN.....	EVACUATION OF THE STOMACH. DO NOT GIVE ANYTHING BY MOUTH TO A CONVULS UNCONSCIOUS PERSON. (SEE "NOTE TO PHYSICIAN" BELOW.) TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN AND INDIVIDUAL REACTIONS OF PATIENT. PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. TAKE MEASURES AGAINST CIRCULATORY SHOCK. BREATHING MAY BE ASSISTED WITH SUPPORT. ADMINISTER OXYGEN IF NECESSARY. IF NECESSARY.
-------------------------	--

**SECTION 05: FIRE FIGHTING MEASURES**

CONDITIONS OF FLAMMABILITY .....	NON-FLAMMABLE.
MEANS OF EXTINCTION/EXTINGUISHING MEDIA: ..	ALCOHOL FOAM. CARBON DIOXIDE. DRY CHEMICAL.
FLASH POINT .....	N.AP.
UPPER FLAMMABLE LIMIT (% BY VOLUME).....	N.AV.
LOWER FLAMMABLE LIMIT (% BY VOLUME).....	N.AV.
AUTO-IGNITION TEMPERATURE .....	N.AV.
SPECIAL FIRE FIGHTING PROCEDURES.....	FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, INCLUDING SELF-CONTAINED BREATHING EQUIPMENT.
UNUSUAL FIRE AND EXPLOSION HAZARDS.....	CARBON MONOXIDE MAY BE EVOLVED IF INCOMPLETE COMBUSTION OCCURS. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS. VAPORS MAY TRAVEL ALONG THE GROUND TO BE IGNITED AT DISTANT LOCATIONS. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES. CLOSED CONTAINERS MAY EXPLODE IN FIRE. ALWAYS STAY AWAY FROM ENDS OF CONTAINERS DUE TO EXPLOSIVE POTENTIAL. DO NOT ALLOW RUNOFF TO ENTER WATERWAYS.
EXPLOSION DATA.....	N.AV.
SENSITIVITY TO MECHANICAL IMPACT .....	N.AV.
SENSITIVITY TO STATIC DISCHARGE .....	N.AV.
HAZARDOUS COMBUSTION PRODUCTS .....	SEE SECTION 10.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

ACCIDENTAL RELEASE MEASURES .....	CORROSIVE MATERIAL, WEAR APPROPRIATE PROTECTIVE EQUIPMENT RESPIRATORY PROTECTION WHERE MISTS OR VAPORS OF UNKNOWN CONCENTRATIONS MAY BE GENERATED (SELF-CONTAINED BREATHING APPARATUS PREFERRED). DIKE AND CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH, ETC.) TRANSFER THE LIQUID AND SOLID SEPARATELY TO CONTAINERS FOR RECOVERY OR DIPOSAL. KEEP SPILL OUT OF SEWERS AND OPEN BODIES OF WATER.
-----------------------------------	---

**SECTION 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND EQUIPMENT.....	AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.
STORAGE REQUIREMENTS.....	STORE IN A COOL, DRY, WELL-VENTILATED AREA, AWAY FROM HEAT AND IGNITION SOURCES. PLACE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES.

**SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

ENGINEERING CONTROL.....	IN PROCESSES WHERE DUSTS, AIRBORNE PARTICULATES, MISTS OR VAPORS MAY BE GENERATED, PROPER VENTILATION MUST BE PROVIDED IN ACCORDANCE WITH GOOD VENTILATION PRACTICES.
PERSONAL PROTECTIVE EQUIPMENT: SKIN PROTECTION .....	RUBBER OR NEOPRENE, WHEN NEEDED, TO PREVENT SKIN CONTACT.
EYE/FACE PROTECTION .....	WEAR CHEMICAL SPLASH GOGGLES WHERE THERE IS A POTENTIAL FOR EYE CONTACT. USE SAFETY GLASSES WITH SIDE SHIELDS UNDER NORMAL USE CONDITIONS.

RESPIRATORY PROTECTION .....	IN PROCESSES WHERE DUSTS, AIRBORNE PARTICULATES, MISTS OR VAPORS MAY BE GENERATED, A NIOSH JOINTLY APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.
WORK/HYGIENE PRACTICES .....	EYE WASH; SAFETY SHOWER; PROTECTIVE CLOTHING (LONG SLEEVES, COVERALLS OR OTHER, AS APPROPRIATE), WHEN NEEDED, TO PREVENT SKIN CONTACT.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE .....	LIQUID
APPEARANCE & ODOUR .....	CLEAR – HERBAL SCENT
ODOUR THRESHOLD .....	N.AV.
SPECIFIC GRAVITY .....	1.037
VAPOUR PRESSURE (MMHG).....	N.AV.
VAPOUR DENSITY (AIR=1) .....	N.AV.
EVAPORATION RATE .....	N.AV.
BOILING POINT .....	94°C
FREEZING/MELTING POINT .....	-15°C
PH .....	7
SOLUBILITY IN WATER (% W/W).....	SOLUBLE.
COEFFICIENT OF WATER/OIL DISTRIBUTION .....	N.AV.

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY .....	STABLE UNDER NORMAL OPERATING CONDITIONS.
CONDITIONS TO AVOID.....	AVOID ANY SOURCE OF IGNITION.
INCOMPATIBILITY (MATERIALS TO AVOID).....	STRONG ACIDS. MAY BE CORROSIVE TO LEAD AND ALUMINIUM. STRONG OXIDIZERS. STRONG BASES. STRONG REDUCING AGENTS. MATERIALS REACTIVE WITH HYDROXYL COMPOUNDS (NP9). MAY REACT WITH AMMONIUM SALT SOLUTIONS RESULTING IN EVOLUTION OF AMMONIA GAS. FLAMMABLE HYDROGEN GAS MAY BE PRODUCED ON CONTACT WITH ALUMINUM, TIN, LEAD, AND ZINC. CARBON MONOXIDE GAS MAY BE PRODUCED ON CONTACT WITH REDUCING SUGARS (METSO).
HAZARDOUS DECOMPOSITION PRODUCT.....	THERMAL DECOMPOSITION MAY PRODUCE TOXIC VAPORS/FUMES OF HYDROGEN CHLORIDE, AMINES AND OTHER ORGANIC MATERIALS, AND OXIDES OF CARBON AND NITROGEN. OXIDES OF CARBON. HYDROGEN (METSO).
HAZARDOUS POLYMERIZATION .....	WILL NOT OCCUR.

**SECTION 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMITS.....	AIHA WEEL IS 50PPM TOTAL, 10MG/M3 AEROSOL ONLY
LD50.....	N.AV.
LC50.....	20,000-34,000 MG/KG (ORAL, RAT)
IRRITANCY OF MATERIAL .....	SEE SECTION 3.
SENSITIZATION TO PRODUCT .....	N.AV.
CARCINOGENICITY.....	IARC – NONE OF THE INGREDIENTS ARE LISTED.
REPRODUCTIVE TOXICITY .....	FOR ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE: - DEVELOPMENTAL (RAT – ORAL): NOAEL - 10 MG/KG/DAY FOR BOTH MATERNAL AND NEONATAL. NO EVIDENCE OF DEVELOPMENTAL TOXICITY EFFECTS WAS OBSERVED AT EXPOSURE DOSES RANGING FROM 10 -100 MG/KG/DAY ADMINISTERED FROM DAY 6 THROUGH 18 OF GESTATION. CLEAR SIGN OF MATERNAL TOXICITY WERE OBSERVED AT THE HIGH-DOSE LEVEL OF 100 MG/KG/DAY. - DEVELOPMENTAL (RABBIT - ORAL): NOAEL – 3 MG/KG/DAY FOR BOTH MATERNAL AND NEONATAL. NO EVIDENCE OF DEVELOPMENTAL TOXICITY EFFECTS WAS OBSERVED AT EXPOSURE DOSES RANGING FROM 1 TO 9 MG/KG/DAY ADMINISTERED FROM DAY 6 THROUGH 18 OF GESTATION. CLEAR SIGNS OF MATERNAL TOXICITY WERE OBSERVED AT THE HIGH-DOSE LEVEL OF 9 MG/KG/DAY.

TERATOGENICITY ..... MUTAGENICITY .....  TOXICOLOGICAL SYNERGISTIC PRODUCTS..... CHRONIC TOXICITY .....	- REPRODUCTIVE/DEVELOPMENTAL (RAT - TWO GENERATION FEEDING): NOAEL - 1000 PPM. NEONATAL AND MATERNAL ADVERSE EFFECTS WERE OBSERVED IN ANIMALS DOSED AT 2000 PPM. N.AV. FOR ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE: - AMES ASSAY (IN VITRO - RAT HEPATOCYTES): NOT MUTAGENIC WITH OR WITHOUT METABOLIC ACTIVATION. - CHROMOSOME ABBERATION (IN VITRO - HUMAN LYMPHOCYTES): NOT MUTAGENIC WITH OR WITHOUT METABOLIC ACTIVATION. N.AV. THERE IS NO HUMAN INFORMATION AVAILABLE FOR ISOPROPANOL. HOWEVER, ISOPROPANOL IS CONSIDERED TERATOGENIC/EMBRYOTOXIC BASED ON ANIMAL INFORMATION. ONE INHALATION RAT STUDY HAS SHOWN THAT 2-PROPANOL IS FETOTOXIC (CAUSED REDUCED FETAL WEIGHT GAIN) IN THE ABSENCE OF MATERNAL TOXICITY. OTHER STUDIES HAVE SHOWN NO EFFECTS OR EFFECTS IN THE PRESENCE OF MATERNAL TOXICITY. POSITIVE AND NEGATIVE MUTAGENIC RESULTS HAVE BEEN OBTAINED IN MAMMALIAN CELLS IN VITRO AND NEGATIVE RESULTS IN BACTERIA. FOR ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE: - ORAL TOXICITY (DOG - 1 YEAR - FEEDING): NOAEL - 400 PPM. CLEAR TREATMENT RELATED EFFECTS WERE OBSERVED IN THE HIGH DOSAGE LEVEL GROUP, 1200 PPM. NO SPECIFIC TARGET ORGAN TOXICITY WAS OBSERVED AND TREATMENT HAD NO EFFECT ON SURVIVAL. - ORAL TOXICITY/ONCOGENICITY (RAT - 2 YEAR: NOAEL - 1000 PPM. TREATMENT RELATED EFFECTS WERE NOTED IN HIGH-DOSAGE LEVEL GROUP, 2000 PPM. SURVIVAL AND TUMOR INCIDENCES, AS COMPARED WITH CONTROLS, WERE NOT EFFECTED.
---	--

**SECTION 12: ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION N.AV.

**SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

**SECTION 14: TRANSPORT INFORMATION**

PROPER SHIPPING NAME.....	NOT REGULATED
TDG CLASSIFICATION .....	N.AV.
UN NUMBER .....	N.AV.
PACKING GROUP .....	N.AV.

**SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION .....	THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.
CPR COMPLIANCE .....	

**SECTION 16: OTHER INFORMATION**

PREPARATION INFORMATION ..... PREPARED BY: REGULATORY AFFAIRS, TELEPHONE - (613)-744-8896  
 PREPARATION DATE: JULY 1, 2016

N.AV. = NOT AVAILABLE  
 N.AP. = NOT APPLICABLE