



Material Safety Data Sheet – ZERO VOC, Solvent Borne Interlocking Brick, Concrete and Stamped Concrete Sealer

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER..DCG Vision Marketing and Sales International Ltd.

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PRODUCT NAME.....ZERO VOC, SOLVENT BORNE, INTERLOCKING BRICK / CONCRETE / STAMPED CONCRETE SEALER

PRODUCT USE ZERO VOC SEALER FOR INTERLOCKING BRICK AND CONCRETE
.....FOR INDUSTRIAL USE ONLY

DATE PREPAREDJANUARY 17, 2015

EFFECTIVE DATEAPRIL 8, 2015

PREPARED BYREGULATORY DEPARTMENT AT DCG VISION MARKETING & SALES INT'L LTD.

SECTION II - COMPOSITION AND INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	%	CAS #	LD50 mg/kg rat	LC50 ppm rat	HRS
ACETONE	20-40	67-64-1	5800 MG/KG	32000 MG/KG	4
TERT-BUTYL ACETATE	40-70	540-88-5	4100 MG/KG	>2230 MG/M3	4

Refer to Section 8 for Occupational Exposure Guidelines.

SECTION III - HAZARDS IDENTIFICATION

ROUTES OF ENTRY

EYE CONTACT.....CAUSES SEVERE EYE IRRITATION.

INGESTIONHARMFUL, MAY ENTER LUNGS.

INHALATION.....VAPOURS ARE IRRITATING TO RESPIRATORY TRACT. CAN CAUSE CENTRAL NERVOUS DEPRESSION.

SKIN ABSORPTION.....CAN BE HARMFUL IF ABSORBED.

SKIN CONTACTIRRITATION, REDNESS, BURNING. DRYING, AND CRACKING.

HEALTH HAZARDSMATERIAL ASPIRATED INTO LUNGS MAY CAUSE INFLAMMATION AND/OR CHEMICAL PNEUMONITIS. CHRONIC OVEREXPOSURE MAY CAUSE IRRITATION TO RESPIRATORY TRACT, CAUSE LIVER AND KIDNEY EFFECTS AND CARDIAC SENSITIZATION. MAY AGGRAVATE EXISTING SKIN, EYE AND LUNG CONDITIONS.

SECTION IV - FIRST AID MEASURES

EYESIMMEDIATELY FLUSH THE CONTAMINATED EYE(S) WITH LUKEWARM, GENTLY FLOWING WATER FOR 15-20 MINUTES, WHILE HOLDING THE EYELID(S) OPEN. IF A CONTACT LENS IS PRESENT, DO NOT DELAY IRRIGATION OR ATTEMPT TO REMOVE THE LENS. TAKE CARE NOT TO RINSE CONTAMINATED WATER INTO THE UNAFFECTED EYE OR ONTO THE FACE. IMMEDIATELY OBTAIN MEDICAL ATTENTION.

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- INGESTION**NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS RAPIDLY LOSING CONSCIOUSNESS, OR IS UNCONSCIOUS OR CONVULSING. DO NOT INDUCE VOMITING. HAVE VICTIM DRINK 60 TO 240 ML (2 TO 8 OZ) OF WATER. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. HAVE VICTIM RINSE MOUTH WITH WATER AGAIN. IMMEDIATELY OBTAIN MEDICAL ATTENTION.
- INHALATION**.....THIS PRODUCT IS (EXTREMELY) FLAMMABLE. TAKE PROPER PRECAUTIONS (E.G. REMOVE ANY SOURCES OF IGNITION) IF BREATHING IS STOPPED, TRAINED PERSONNEL SHOULD BEGIN ARTIFICIAL RESPIRATION (AR) OR, IF THE HEART HAS STOPPED, IMMEDIATELY START CARDIOPULMONARY RESUSCITATION (CPR) OR AUTOMATED EXTERNAL DEFIBRILLATION (AED). AVOID MOUTH-TO-MOUTH CONTACT BY USING MOUTH GUARD OR SHIELDS. QUICKLY TRANSPORT VICTIM TO AN EMERGENCY CARE FACILITY.
- SKIN (DERMAL)**.....AS QUICKLY AS POSSIBLE, REMOVE CONTAMINATED CLOTHING, SHOES AND LEATHER GOODS (E.G. WATCHBANDS, BELTS). (NOTE: IT MAY BE NECESSARY TO STORE CONTAMINATED CLOTHING UNDER WATER UNTIL IT CAN BE SAFELY DECONTAMINATED OR DISCARDED. REMOVE CONTAMINATED CLOTHING, SHOES AND LEATHER GOODS (E.G. WATCHBANDS, BELTS). FLUSH WITH LUKEWARM, GENTLY FLOWING WATER FOR 5 MINUTES. IF IRRITATION PERSISTS, REPEAT FLUSHING. OBTAIN MEDICAL ADVICE. COMPLETELY DECONTAMINATE CLOTHING, SHOES AND LEATHER GOODS BEFORE REUSE OR DISCARD.
- NOTE TO PHYSICIAN**THE MAIN HAZARD FOLLOWING ACCIDENTAL INGESTION IS ASPIRATION OF THE LIQUID INTO THE LUNGS PRODUCING CHEMICAL PNEUMONITIS.

SECTION V - FIRE FIGHTING MEASURES

- FLASH POINT(°C)** -18°C T.C.C. EST. (ACETONE)
- UPPER FLAMMABLE LIMIT (% BY VOL)** 12.8% EST. (ACETONE)
- LOWER FLAMMABLE LIMIT (% BY VOL)** 1.26% EST. (TERT BUTYL ACETATE)
- AUTOIGNITION TEMPERATURE(°C)** 393°C EST.
- EXTINGUISHING MEDIA** DRY CHEMICAL; CARBON DIOXIDE; ALCOHOL FOAM; WATERFOG
- SPECIAL FIRE FIGHTING PROCEDURES**..... USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS OR STRUCTURES PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.
- UNUSUAL FIRE AND EXPLOSION HAZARDS.** VAPOURS MAY TRAVEL ALONG GROUND AND FLASHBACK ALONG VAPOUR TRAIL MAY OCCUR NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM(EVEN EMPTY) AS PRODUCT(EVEN RESIDUE) CAN IGNITE EXPLOSIVELY ALL TWENTY LITRE PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS & TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED
- HAZARDOUS COMBUSTION PRODUCTS** CARBON MONOXIDE AND/OR CARBON DIOXIDE AND POSSIBLY IRRITATING GASES. ACRYLIC MONOMERS.

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SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILL VENTILATE, AVOID SKIN/EYE CONTACT; DYKE LARGE SPILLS; ABSORB ACCORDING TO GOVERNMENT REGULATIONS

SECTION VII - HANDLING AND STORAGE

HANDLING & EQUIPMENT USE IN WELL VENTILATED AREA; GROUND EQUIPMENT; USE EXPLOSION PROOF TOOLS AND VENTILATION; KEEP AWAY FROM SPARKS AND OPEN FLAMES; WASH CLOTHING AND SKIN AFTER CONTACT

STORAGE STORE IN, WELL VENTILATED AREA AT NORMAL AMBIENT TEMPERATURE

SECTION VIII - EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS:

TLV NOT AVAILABLE.

TWA 200 PPM EST. (TERT-BUTYL ACETATE)

ENGINEERING CONTROLS

EXHAUST LOCAL/MECHANICAL/EXPLOSION PROOF

PROTECTIVE EQUIPMENT

GLOVES IMPERVIOUS.

RESPIRATOR APPROVED ORGANIC CANISTER MASK OR AIR SUPPLIED

EYE CHEMICAL SAFETY GOGGLES/GLASSES

FOOTWEAR IMPERVIOUS

CLOTHING IMPERVIOUS (APRON, OVERALLS)

OTHER USE GOOD PERSONAL HYGIENE

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE LIQUID

APPEARANCE & ODOUR CLEAR, COLOURLESS; CHARACTERISTIC ODOUR

VISCOSITY 15 - 30 CPS

ODOUR THRESHOLD NOT AVAILABLE

BOILING POINT(°C) NOT AVAILABLE

FREEZING POINT(°C) -95 to -90°C EST. (ACETONE)

VAPOUR PRESSURE (mm Hg) NOT AVAILABLE

VAPOUR DENSITY (AIR=1) NOT AVAILABLE

EVAPORATION RATE NOT AVAILABLE

SPECIFIC GRAVITY 0.8800 +/- 0.01 GMS/CC @25°C

SOLUBILITY IN WATER NOT AVAILABLE

VOC 0 GMS/L

COEFF. WATER/OIL DIST. NOT AVAILABLE

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SECTION X - STABILITY AND REACTIVITY

STABILITYSTABLE

INCOMPATIBILITYSTRONG ACIDS, BASES, AND OXIDIZERS. SOME FORMS OF PLASTIC, ALKALIES AND NITRATES.

CONDITIONS TO AVOIDEXCESSIVE HEAT/IGNITION SOURCES

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND/OR CARBON DIOXIDE AND POSSIBLY IRRITATING GASES. ACRYLIC MONOMERS,

SECTION XI - TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

EYESCAN CAUSE SEVERE EYE IRRITATION. INCLUDING BURNING SENSATION, REDNESS, SWELLING, BLURRED VISION AND CORNEAL INJURY.

INGESTIONCAUSES IRRITATION, A BURNING SENSATION OF THE MOUTH, THROAT AND ABDOMINAL PAIN. MAY CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION, DIZZINESS, HEADACHE, DIARRHEA, NAUSEA AND VOMITING. WHEN ACCIDENTLY ASPIRATED INTO LUNGS, CAN CAUSE SEVERE INFLAMMATION.

INHALATIONEXCESSIVE INHALATION OF VAPOURS CAN CAUSE NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, BLURRED VISION AND POSSIBLE UNCONSCIOUSNESS.

SKIN (DERMAL)PROLONGED/REPEATED CONTACT MAY CAUSE DEFATTING OF THE SKIN WHICH CAN LEAD TO DERMATITIS. SYMPTOMS INCLUDE DRYING AND BURNING SENSATION.

EFFECTS OF CHRONIC EXPOSURE

CARCINOGENICITY NOT CLASSIFIED AS CARCINOGENIC BY IARC.

REPRODUCTIVE EXCESSIVE EXPOSURE DURING PREGNANCY MAY BE HAZARDOUS TO THE DEVELOPING FETUS. COMPONENTS OF THIS PRODUCT ARE EMBRYOTOXIC AND FETOTOXIC IN ANIMALS AT MATERNALLY TOXIC LEVELS.

TERATOGENICITY NOT AVAILABLE.

MUTAGENICITY NOT AVAILABLE

SYNERGISTIC PRODUCTS NOT AVAILABLE

OTHER EFFECTS ON THE SKIN AND EYES MAY BE DELAYED, AND DAMAGE MAY OCCUR WITHOUT THE SENSATION OR ONSET OF PAIN.

SECTION XII - ECOLOGICAL INFORMATION

AQUATIC TOXICITYLC50 (ONCORHYNCHUS MYKISS) 5540 MG/L EST. (ACETONE)
LC50 (PIMEPHALES PROMELAS) 296-362 MG/L, FLOW-THROUGH, 96H EST. (TERT-BUTYL ACETATE)

ENVIRONMENTAL FATEPREVENT FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED.

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SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL.....DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL PROVINCIAL AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORT INFORMATION

PROPER SHIPPING NAME (GROUND ONLY) . FLAMMABLE LIQUID N.O.S. (ACETONE)
TDG CLASSIFICATION (GROUND ONLY) CLASS 3 UN1993 II

SECTION XV - REGULATORY INFORMATION

WHMIS CLASSIFICATION/DESCRIPTION

B2 - FLAMMABLE LIQUID
D2B - TOXIC (EYE AND SKIN IRRITANT)
D2A - TOXIC (EMBRYOTOXIC/FETOTOXIC)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION XVI - OTHER INFORMATION

THE INFORMATION CONTAINED IN THIS FORM IS BASED ON DATA FROM SOURCES CONSIDERED TO BE RELIABLE BUT DCG VISION MARKETING AND SALES INTERNATIONAL LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS THEREOF. THE INFORMATION IS PROVIDED AS A SERVICE TO PERSONS PURCHASING OR USING THE MATERIAL TO WHICH IT REFERS AND DCG VISION MARKETING AND SALES INTERNATIONAL LTD. EXPRESSLY DISCLAIMS ALL LIABILITY FOR LOSS OR DAMAGE, INCLUDING CONSEQUENTIAL LOSS, OR FOR INJURY TO PERSONS (INCLUDING DEATH) ARISING DIRECTLY OR INDIRECTLY FROM RELIANCE UPON THE INFORMATION OR USE OF THE MATERIAL.