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MATERIAL SAFETY DATA SHEET

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SECTION I - IDENTIFICATION
TRADE NAME: ArmorFlex
DESCRIPTION: HAP33 WHITE
PRODUCT CODE IDENTITY: 99FWK692
NPCA HMIS RATING: H 2* F 3 R 2
                                          LAST REVISED: 12/16/2014
                                            PRINT DATE: 12/17/2014
COMPANY NAME: CCP COMPOSITES US LLC
ADDRESS: 820 E. 14TH AVE.
                                             CCP COMPOSITES US LLC
                                           PRODUCT STEWARDSHIP
            N. KANSAS CITY MO 64116
CUSTOMER:
                                         INFORMATION TELEPHONE:
                                          1-800-821-3590
 ATTENTION:
       24 HOUR RESPONSE NUMBER (CHEMTREC): 1-800-424-9300 (NORTH AMERICA)
                     001-703-527-3887 (INTERNATIONAL)
     ______
  CCP certifies that its products comply with all the provisions of the
 Toxic Substances Control Act (TSCA), unless otherwise stated by
 ingredient in Section II.
 ______
***
                                                              ***
     The percent by weight composition data given in Sections II
      and X are NOT SPECIFICATIONS, but are based on 'target'
                                                                 ***
     formula values for each ingredient in the product. The data
***
                                                                 ***
    are presented as ranges for low hazard ingredients and single
point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product consistent.
      point values for ingredients of regulatory concern. Actual
                                                                 * * *
                                                                * * *
      separately established product specifications.
SECTION II INGREDIENTS
 1
CAS# 027253-31-2
COBALT NEODECANOATE, 26% COBALT
PCT BY WT: .0300
EXPOSURE LIMIT:
    ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
    ACGIH TLV/TWA:
 2
CAS# 000136-52-7
COBALT 2-ETHYLHEXANOATE, 12% COBALT
PCT BY WT: .1360
EXPOSURE LIMIT:
    ACGIH TLV/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME OSHA PEL/TWA: .05 MG/CU.M. AS COBALT METAL, DUST & FUME
                      .05 MG/CU.M. AS COBALT METAL, DUST & FUME
______
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 4.4980 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
    ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5 Hr (RAT)
 4
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 28.4370 VAPOR PRESSURE: 4.500 MMHG @ 68F
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*************
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********************
EXPOSURE LIMIT:
     SURE LIMIT:

ACGIH TLV/TWA:

ACGIH TLV/STEL:

OSHA PEL/TWA:

OSHA PEL/CEILING:

OSHA PEL/STEL:

LD50, Oral:

LD50, Dermal:

OTHER:

OTHER (cont.):

R LIMITS:

20 PPM (85 MG/CU.M.)

40 PPM (170 MG/CU.M.)

100 PPM (8 HR TWA)

ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)

ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)

4.37 G/KG (RAT)

>5 G/KG (RABBIT)

OTHER:

OTHER (cont.):

NIOSH TWA: 50 PPM (215 MG/M3)
OTHER LIMITS:
 IARC - Group 2B See Section V
                                      NTP - Reasonably Anticipated
     to be a Human Carcinogen
 5
CAS# 013463-67-7
TITANIUM DIOXIDE
 PCT BY WT: 20.7850
EXPOSURE LIMIT:
     ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)
OSHA PEL/TWA: 15 MG/CU.M. (TOTAL DUST)
LD50, Oral: >7500 MG/KG (RAT)
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE
 CAS# 014807-96-6
TALC (HYDROUS MAGNESIUM SILICATE)
PCT BY WT: 5 - 10
EXPOSURE LIMIT:
     ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST LD50, Oral: NOT AVAILABLE LD50, Dermal: NOT AVAILABLE LC50, Inhalation: NOT AVAILABLE
  7
CAS# 112945-52-5
SILICA, AMORPHOUS
EPA CASN 7631-86-9
PCT BY WT: 1 - 5
EXPOSURE LIMIT:
                       10 MG/M3
    ACGIH TLV/TWA:
                          15 MG/M3-TOTAL DUST; 5 MG/M3-TOTAL RESPIRABLE DUST
     OSHA PEL/TWA:
     This product contains one or more reported carcinogens or suspected
carcinogens which are noted by NTP, IARC, or OSHA-Z in the appropriate
subsection above under OTHER LIMITS.
*******************
***********************
     This substance is classified as a hazardous air pollutant.
SECTION III PHYSICAL DATA
_____
                                      Low: 212.0 F
Boiling Range: High: -N/A F
Vapor Pressure: See Section II
Theoretical Weight per Gallon, Calculated:
                                                        11.2333 LB/GL
Theoretical Specific Gravity, Calculated: 1.350
Theoretical VOC, Calculated: 3.775 LB/GL
  --If applicable , see Section X for further VOC information--
Physical State: LIQUID
Appearance: WHITE
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NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55

SECTION V HEALTH HAZARD DATA

FFFECTS OF FYCESSIVE OVERFYDOSIDE DRIMARY POINTES OF FWTRY ARE:

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE: EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort. SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.  ${\tt INHALATION:}$ 

\* ArmorFlex

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. Preexisting eye, skin, liver, kidney and respiratory disorders. EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

Based on the presence of components (\*\*, \*\*, 04)

CALIFORNIA PROPOSITION 65 INFORMATION:

WARNING - This product contains a chemical(s) known to the State of California to cause cancer.

## OTHER HEALTH HAZARDS:

#### TALC

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and is not expected to be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

#### STYRENE MONOMER

The 12th Report on Carcinogens issued by the National Toxicology Program lists styrene as a "reasonably anticipated" carcinogen, but the Report cautions that the NTP listing does not mean that styrene presents a risk to persons in their daily lives. The Styrene Information and Research Center does not agree with the classification as it did not include a review of all available data. SIRC states: "HHS included styrene in the 12th RoC despite the fact that European Union regulators have determined styrene does not represent a human cancer concern. E.U. scientists reviewed the full styrene database, weighing all of the available data in reaching their conclusion."

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure to styrene.

#### METHYL METHACRYLATE

Skin exposure to methyl methacrylate may cause irritation and/or a rash; it is also a potential skin sensitizer.

applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

#### **VENTILATION:**

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

### PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product. EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields. OTHER PROTECTIVE EQUIPMENT:

CCP COMPOSITES US LLC

# LIMITED WARRANTY AND LIMITATION OF LIABILITY

CAS# 000100-42-5 PCT BY WT: 28.4370

LIMITED WARRANTY. Seller warrants that: (i) Buyer shall obtain good title to the product sold hereunder, (ii) at shipment such product shall conform to Seller's specifications for the product; and (iii) the sale or use of such product will not infringe the claims of any U.S. patent covering the product itself, but Seller does not warrant against infringement which might arise by the use of said product in any combination with other products or arising in the operation of any process.

\* ArmorFlex

\* MATERIAL SAFETY DATA SHEET
\* 99FWK692

SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO SELLER. ANY ADDITIONL REPRESENTATIONS OR SUGGESTIONS REGARDING THE PRODUCT OR ITS POSSIBLE USES ARE BASED UPON SELLER'S GOOD FAITH OPINION AND BELIEF, BUT ARE NOT TO BE CONSTRUED AS AFFIRMATIONS OF FACT, PROMISES, OR DESCRIPTIONS, AND SHALL IN NO WAY BE DEEMED PART OF THE SALE OF PRODUCT.

In particular, and without limiting the foregoing, because of environmental and use conditions beyond Seller's control, Seller offers no warranty and makes no promise concerning the results that may be obtained by the Buyer (or the Buyer's customer) with the product or the performance of the product. Each user should satisfy itself, by adequate testing, of the suitability of the product for its particular application.

LIMITATION OF LIABILITY. (a) Seller's total liability for any claim arising out of or in connection with this contract, including for breach of contract, warranty, statutory duty, or for other tort, including seller's negligence, shall not exceed the purchase price of such product as to which such liability arises. Seller shall not be liable for any injury, loss or damage, resulting from the handling or use of the product shipped hereunder whether in the manufacturing process or otherwise.

IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOSS OF PROFITS, CAPITAL OR BUSINESS OPPORTUNITY, DOWNTIME COSTS, OR CLAIMS OF CUSTOMERS OR EMPLOYEES OF BUYER, WHETHER IN AN ACTION UNDER CONTRACT, NEGLIGENCE OR ANY OTHER THEORY, ARISING OUT OF OR IN CONNECTION WITH THIS CONTRACT, OR THE USE, INABILITY TO USE, OR PERFORMANCE OF THE PRODUCT.

(b) If Seller furnishes technical or other advice to Buyer, whether or not at Buyer's request, with respect to processing, further manufacture, other use or resale of the products, Seller shall not be liable for, and Buyer assumes all risk of, such advice and the results thereof. (Rev. 01/12)