QINGDAO SANHUAN COLORCHEM CO., LTD.

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MATERIAL SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

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SYNONYMS: PVC SUSPENSION RESIN (ALL GRADES)

PRODUCT USE: Vinyl fabrication

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Polyvinyl Chloride

CAS NUMBER: 9002-86-2

PERCENTAGE: 99-100

SECTION 3 HAZARDS INDENTIFICATION

POTENTIAL HEALTH EFFECTS:

INHALATION;

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: to our knowledge, no effects are known

SKIN CONTACT:

SHORT TERM EXPOSURE: mechanical irritation

LONG TERM EXPOSURE: to our knowledge, no effects are known

INGESTION:

SHORT TERM EXPOSURE: to our knowledge, no effects are known

LONG TERM EXPOSURE: to our knowledge effects are known

SECTION 4 FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

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SKIN CONTACT: Wash contaminated areas with soap and water .IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INGESTION: No hazard expected. IF LARGE AMOUNTS ARE INGESTED,GET MEDICAL ATTENTION .

STCTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard. Although unlikely, dust/air mixtures may explode.

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING: Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Wear an approved positivepressure self-contained breathing apparatus.

Cool extinguished material to prevent decomposition.

SENSITIVITY TO MECHANICAL IMPACT: Not sensitive

SENSITIVITY TO STATIC DISCHARGE: Electrostatic charges may build up during handing.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products or combustion: hydrochloric acid, oxides of carbon, small amounts of benzene and aromatic and aliphatic hydrocarbons

SECTION 6 ACCIDETAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Eliminate all sources of ignition. To minimize dust, vacuum cleaning is preferred. Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

SECTION7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Store in a cool, dry place. Store in a wellventilated area. Avoid heat, flames, sparks and other sources of ignition. Earthling of equipment is recommended.

HANDLING: Use methods to minimize dust. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. PVC resin processing may in the release

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of low levels of vinyl chloride.

Use only with adequate ventilation.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

PVC SUSPENSION RESIN (ALL GRADES):

Nuisance particulates (Nuisance dust):

10 mg/m3 (inhalable particulate)

VENTILATION: Provide local exhaust ventilation where dust or fumes may be generated. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear safely glasses with side shields. An emergency eye wash fountain may be provided.

CLOTHING: Wear suitable protective clothing.

GLOVES: Wear suitable gloves.

PROTECTIVE MATERIAL TYPES: canvas, cotton, latex, leather, polyvinyl chloride (PVC)

RESPIRATOR: When there is no possibility of vinyl chloride vapors, and FOR NUISANCE DUST ONLY, an air purifying respirator may be appropriate.

An approved respirator with appropriate (dust, fume, mist) filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.

A half face piece air-purifying respirator may be used in concentrations up to 10X the acceptable exposure level and a full face piece air-purifying respirator may be used in concentrations up to 50X the acceptable exposure level.

Supplied air should be used when the level is expected to be above 50X the acceptable level, or when there is a potential for uncontrolled release.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

COLOUR: white

PHYSICAL FORM: powder, granules

ODOUR: Not available

MOLECULAR FORMULA: (C2H3Cl)n

BOILING POINT: Not applicable

MELTING POINT: Not available

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FLASH POINT: 736F(391C)

AUTOIGNITION: 849F(454C)

VAPOUR PRESURE: Not applicable

VAPOUR DENSITY: Not applicable

SPECIFIC GRAVITY(water=1): 1.4

DENSITY: 1.4g/mL

WATER SOLUBILITY: negligible

PH: Not applicable

VOLATILITY: Not applicable

ODOUR THRESHOLD: Not available

EVA[PRATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition.

INCOMPATIBILITIES: None known.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products or combustion: hydrochloric acid, oxides of carbon, small amounts of benzene and aromatic aliphatic hydrocarbons.

POLYMERISATION: PVC is a stable polymer material and will not further polymerize. This material will not depolymerise to form VCM.

SECTION 11 TOXICOLOGICAL INFORMATION

PVC SUSPENSION RESIN (ALL GRADES)

TOXICITY DATA: Vinyl chloride monomer(VCM) is unlikely to be present at levels that may produce a biological effect. This material is practically non-toxic by the oral route. This material is unlikely to cause chemical skin irritation. Mechanical irritation may occur. Eye irritation may occur from the mechanical action of lodged particles.

SECTION 12 ECOLONGICAL INFORMATION

ECOTOXICITY:

FISH TOXICITY: No data available. This material is believed to be practically non-toxic to aquatic life.

FATE AND TRANSPORT:

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BIODEGRANDATION: PVC will not biodegrade. Vinyl chloride may degrade under anaerobic conditions.

PERSISTENCE: This material will persist in the environment**.**

BIOCONCENTRATION: This material will not bioaccumulate.

OTHER ECOLOGICAL INFORMATION: This material is believed to be practically nontoxic to terrestrial organisms.

SECTION 13 DISPOSAL COMSIDERATIONS

Reuse or reprocess if possible. Dispose in accordance with all applicable regulation.

SECTION 14 TRANSPORT INFORMATION

LAND TRANSPORT ADR: Not regulated

LAND TRANSPORT RID: Not regulated

MARITIME TRANSPORT IMDG: Not dangerous

SECTION 15 REGULATORY INFORMATION

CLASSIFICATION UNDER HAZARD TO WATER: 0

SECTION 16 OTHER INFORMATION

IMPORTANT: The information presented herein ,while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge .NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE , OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED ,IS MADE REGARDING PERFORMANCE, SUITABILITY,STABILITY OR OTHERWISE. The information included herein is not intended to be all-inclusive as to the appropriate manner and/or conditions of use, handling and/or storage. Factors pertaining to certain conditions of storage, handling, or use of this product may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended to, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any laws, regulations or ordinances of any governmental entity.