**SAFETY DATA SHEET**

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 **GHS CLASSIFICATION**

**FLAMMABLE LIQUID:** Category 2.

**CARCINOGEN:** Category 2.

**SPECIFIC TARGET ORGAN TOXICANT:** Category 3.

**SPECIFIC TARGET ORGAN TOXICANT:** Category 3.

**ASPIRATION TOXICANT:** Category 1.

**ACUTE TOXICITY (INHALATION):** Category 4.

**ACUTE AQUATIC TOXICITY:** Category 3.

**SKIN IRRITATION:** Category 2. **SIGNAL WORD:** DANGER!

**EYE IRRITATION:** Category 2B.

**HAZARD STATEMENTS:**

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H402 Harmful to aquatic life.

**PRECAUTIONARY STATEMENTS:**

**PREVENTION:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

**SECTION 2: HAZARDS IDENTIFICATION**

**PRODUCT: ALLIED AC309 A HS CHEMICAL NAME:** Preparation/Mixture

**PRODUCT USE:** Concrete Sealer

**DESTRIBUTED BY: WALLACE CONSTRUCTION SPECIALITES LTD**

825 MacKay Street

 Regina, Saskatchewan, Canada

 S4N 2S3

 306-569-2334

**REVISION DATE:** March 22, 2016

**EMERGENCY CONTACT:** CANUTEC 613-996-6666

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**GENERAL ADVICE:**

Take proper precautions to ensure your own health and safety before attempting to rescue and providing first aid. Consult a doctor/physician if necessary. Show this Safety Data Sheet to the doctor in attendance.

**INHALATION:**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**SECTION 4: FIRST AID MEASURES**

**COMPONENTS CAS No. % BY WEIGHT**

Tert-Butyl Acetate 540-88-5 55 - 60

Acrylic Resin N/E 23 - 25

Proprietary Solvent Blend N/E 17 - 20

**SECTION 3: COMPOSITOIN/INFORMATION ON INGREDIENTS**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fumes/gas/mist/vapors and sprays.

P271 Use only outdoors or in a well-ventilated areas.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection and face protection.

**RESPONSE:**

P301 + P310 IF SWALLOWED: Immediately call a POISION CENTER or doctor/physician.

P303 + P361 + P353 IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing, wash before reuse. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue to rinse.

P308 + P313 IF EXPOSED OR CONCERNED: Get medical advice/attention.

P312 Call a POISION CETER or doctor/physician if you feel unwell.

P331 Do NOT induce vomiting.

P332 + P313 IF SKIN IRRITATION OCCURES: Get medical attention/advice.

P370 + P378 IN CASE OF FIRE: Use water fog, dry chemical or carbon dioxide to extinguish.

**STORAGE:**

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**DISPOSAL:**

P504 Dispose of contents and container in accordance with local regulations.

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**FLAMMABLE PROPERTIES**

**FLASH POINT AND METHOD:** 4°C / 39°F (TCC)

**AUTOIGNITION TEMP:** 229°C / 444°F

**FLAMMABLE LIMITS:** (upper) 6.6% (lower) 1.1% (V/V)

**SUITABLE EXTINGUISHING MEDIA:** SMALL FIRE: Use dry chemicals, CO2 or alcohol-resistant foam.

 LARGE FIRE: Use water spray, water fog, or alcohol-resistant foam.

**UNSUITABLE EXTINGUISHING MEDIA:** Do not use solid water stream – may spread fire.

**FURTHER INFORMATION:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contained fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

**PROTECTIVE EQUIPMENT AND**

**PRECAUTIONS FOR FIREFIGHTERS**

**HAZARDS DURING FIRE FIGHTING:** Releases flammable vapors below normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Flammable vapors may be heavier than air and travel long distances along the ground before igniting and flashing back to vapor source. Move containers from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose holders to monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw the area and let fire burn.

**SECTION 5: FIRE FIGHITNG MEASURES**

**SKIN CONTACT:** Clean any exposed skin with warm soapy water if possible. If not, and a waterless hand cleaner is used, it should be without pumice. Get medical attention if irritation persists or develops. Launder contaminated clothing before reuse.

**EYE CONTACT:** Immediately flush eyes with plenty of cool water for at least 15 minutes, occasionally lifting eye lids to ensure thorough rinsing. Get medical attention if irritation persists.

**INGESTION:** If swallowed, do not induce vomiting. If vomiting occurs, keep head lower than the hips to avoid aspiration of vomit into the lungs which can cause inflammation or pneumonitis. Call poison control center or get immediate medical attention.

**NOTES TO PHYSICIAN**

**SYMPTOMS:** If inhalation occurs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, and shortness of breath and/or fever. High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in severe over-exposure). The onset of respiratory symptoms may be delayed for several hours after exposure.

**HAZARDS:** Can cause pulmonary edema if aspirated into the lungs. Harmful: may cause lung damage if swallowed.

**TREATMENT:** Treat symptomatically. Treatment of over exposure should be directed at the control of symptoms and the clinical condition of the patient. In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision.

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**CONTROL PARAMETERS**

 **EXPOSURE GUIDELINES**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**HANDLING**

**ADVICE ON SAFE HANDLING:** Use only non-sparking tools. Extinguish all ignition sources. Carefully vent any internal pressure before removing closure. Containers much be properly grounded before beginning transfer. Handle empty containers with care; vapor/residue may be flammable. All equipment must conform to applicable electrical code. This material may attack some forms of plastics, rubbers, and coatings. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Check atmosphere for explosiveness and oxygen deficiencies. Wear recommended personal protective equipment. Observe precautions pertaining to confined space entry. Do not breathe vapors or spray mists.

**ADVICE ON PROTECTION AGAINST**

**FIRE/EXPLOSION:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against static discharge.

**STORAGE**

**REQUIREMENTS FOR STORAGE AREAS**

**AND CONTAINERS:** Store closed drums with bung in up position. Store only in tightly closed, properly vented containers away from heat, sparks, open flames and strong oxidizing agents. Containers must be properly grounded before beginning transfer. This material may attack some forms of plastics, rubbers, and coatings. Consult supplier(s) of these materials for specific recommendations. Steel drums are recommended for packaging.

**SECTION 7: HANDLING AND STORAGE**

**PERSONAL PRECAUTIONS:** Use personal protective equipment. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**METHODS FOR CONTAINMENT/CLEAN UP:** Flammable. Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Dike large spills and place materials in salvage containers. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**ADDITIONAL ADVICE:** See Section 8 for additional PPE information.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SPECIAL PROTECTIVE EQUIPMENT:** Wear positive pressure self-contained breathing apparatus for fire-fighting (SCBA). Structural firefighter’s protective clothing will only provide limited protection.

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chemical Name** | **CAS No.** | **ACGIH TLV** | **OSHA PEL** | **NIOSH IDLH** |
| Tert-Butyl Acetate | 540-88-5 | TWA: 200 ppm | (Vacated) TWA: 200 ppm(Vacated) TWA: 950 mg/m3TWA: 200 ppmTWA: 950 mg/m3 | IDLH: 1500 ppmTWA: 200 ppmTWA: 950 mg/m3 |
| Solvent Blend | N/E | N/E | N/E | N/E |

*N/E: Not Established*

**APPROPRIATE ENGINEERING CONTROLS**

 **ENGINEERING CONTROLS:**

Showers

 Eyewash stations

 Ventilation systems

**PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**RESPIRATORY PROTECTION**

If engineering controls do not maintain airborne contaminant concentrations at a level with is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements; if applicable.

Types of respirators to be considered for this material include: Half-face filter respirator.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**HAND PROTECTION**

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: Chemical resistant gloves are recommended, such a butyl rubber.

**EYE PROTECTION**

If contact is likely, safety glasses with side shields are recommended.

**SKIN AND BODY PROTECTION**

Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The equipment must be cleaned thoroughly after each use.

**SPECIFIC HYGIENE MEASURES**

Selection of appropriate personal protective equipment should be based on evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash clothing frequently.

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2230 mg/m3 (Rat) 4 hrs

>2000 mg/kg (Rabbit)

>4100 mg/kg (Rat)

**PRODUCT SUMMARY**

The below given information is based on the assessment of the product including impurities.

**ACUTE TOXICITY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Chemical Name** | **Oral LD50** | **Dermal LD50** | **Inhalation LC50** |
| Tert-Butyl Acetate540-88-5 | >2000 mg/kg (Rabbit |  |  |
| Solvent Based | N/E | N/E | N/E |

**SKIN CORROSION/IRRITATION:** Based on skin irritation values, not classified. May cause slight transient skin irritation. Repeated exposure may cause skin dryness or cracking.

**SERIOUS EYE DAMAGE/IRRITATION:** May cause mild, short-lasting discomfort to eyes.

**RESPIRATORY/SKIN SENSITIZATION:** Not expected to be a skin and respiratory sensitization.

**CHRONIC TOXICITY**

**CARCINOGENICITY:** Cause cancer in laboratory animals, but the relevance to humans in uncertain, based on assessment of the components.

**GERM CELL MUTAGENICITY:** Not expected to be a germ cell mutagen.

**REPRODUCTIVE TOXICITY**

**STOT-SINGLE EXPOSURE:** Target Organs: central nervous system, respiratory system. May cause drowsiness or dizziness.

**STOT-REPEATED EXPOSURE:** Not expected to cause organ damage from prolonged or repeated exposure, based on assessment of repeated exposure toxicity values of the components.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**REACTIVITY:** Will not occur.

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Keep from heat, sparks, open flames and other sources of ignition. Avoid contact with strong oxidizing agents. Prevent vapor accumulation.

**MATERIALS TO AVOID:** Some plastics, acids, alkalis, nitrates, and strong oxidizing agents.

**HAZARDOUS DECOMPOSITION:** Material does not decompose at ambient temperatures.

**THERMAL DECOMPOSITION:** Carbon dioxide (CO, CO2), and water.

**HAZARDOUS REACTIONS:** Not expected to occur.

**SECTION 10: CHEMICAL STABILITY & REACTIVITY INFORMATION**

**APPEARANCE:** Clear liquid. **COLOR:** Clear (colorless).

**ODOR:** Solvent odor. **EVAPORATION RATE:** 2.8 (n-Butyl Acetate = 1)

**SPECIFIC GRAVITY:** 0.920  **pH:** Not applicable.

**% VOLATILE:** 75 **FLASH POINT:** 4°C / 39°F.

**VOC:** 399.8 g/L **BOILING POINT:** 97.8°–200°C / 208°-392°F.

**VAPOR PRESSURE:** 56mm/Hg at 20°C (68°F) **SOULBILITY IN WATER:** Insoluble.

**VAPOR DENSITY:** 4.0 (Air=1) **VISCOSITY:** 11-13 seconds at 23°C/73°F.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**HAZARDOUS/NON-HAZARDOUS MATERIALS:** Hazardous.

 **DOT TDG**

**UN/ID No:** UN1866 **UN/ID No:** UN1866

**PROPER SHIPPING NAME:** Resin Solution **PROPER SHIPPING NAME:** Resin Solution

**SECTION 14: TRANSPORTATION INFORMATION**

This product could be classified as a hazardous waste due to ignitability. Dispose in accordance with Local/Regional/National/International regulations for hazardous wastes. Prevent materials from entering drains, sewers, or waterways. Do not dump on the ground. Do NOT burn.

**SECTION 13: DISPOSAL CONSIDERATIONS**

The information given is based on data available for the material, the component of the material, and similar materials.

**EXOTOXICITY**

**SOLVENT COMPONENTS:** Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**RESIN COMPONENTS:** Predicted to have low toxicity to aquatic organisms.

**MOBILITY**

**SOLVENT COMPONENTS:** Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

**RESIN COMPONENTS:** Predicted to have low mobility in soil.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chemical Name** | **Toxicity to Algae** | **Toxicity to Fish** | **Toxicity to Microorganisms** | **Toxicity to Daphnia** |
| Tert-Butyl Acetate | Can inhabit growth of aquatic algae:EC50: 16 mg/LExposure time: 72 hrsSpecies: Pseudokirchneriella subcapitata (green algae)Growth inhibition: EC50: 64 mg/LExposure time: 96 hrsNOEC: 2.3 mg/L | - | - | - |

Product may cause mechanical damage to aquatic organisms. Solvent components are expected to volatilize in the environment and to be moderately toxic to both freshwater and marine organisms.

**PERSISTANCE AND DEGRADABILITY:** Resin component is non-biodegradable in soil.

**BIOACCUMULATIVE POTENTIAL:** No data available.

**OTHER ADVERSE EFFECTS:** No data available.

**SECTION 12: ECOLOGICAL INFORMATION**

**ASPIRATION HAZARD:** May be fatal if swallowed and enters airways.

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|  |  |
| --- | --- |
| **HMIS RATING:** | **NFPA RATING:** |
| Health Hazard – 2Flammability – 3Instability – 0Physical and Chemical Properties - X | Health Hazard – 2Flammability – 3Physical Hazard – 0Personal Protection - X |

**REVISION DATE:** March 22, 2016

**PREPARED BY:** Joey Wang

**SECTION 16: OTHER INFORMATION**

**All components used in this products are on the TSCA Inventory and the Canadian DSL.**

**OTHER REGULATORY CONSIDERATIONS:** None recognized.

**SECTION 15: REGULATORY INFORMATION**

**HAZARD CLASS:** 3 **HAZARD CLASS:** 3

**PACKING GROUP:** II **PACKING GROUP:** II

**ENVIRONMENTAL HAZARDS:** Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**BULK TRANSPORTATION INFO:** Not applicable. Product not shipped in bulk configuration.

**SPECIAL PRECAUTIONS:** Keep containers closed. Avoid ignition sources.

*The information contained herein is based on data believed to be reliable by WALLACE CONSTRUCTION SPECIALTIES LTD. It is true and accurate to the best of our knowledge, but is not intended to be all inclusive. Users should consider this information as a supplement to other information gathered by them and must make their own determination of suitability and completeness to assure proper safe use and disposal of these materials.*