

Company Identity: **Sunair Products, Inc.**
 Product Identity: **AC Flush**

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.1 and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This document complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD).

IMPORTANT: Read this document before handling & disposing of this product.
 Pass this information on to employees, customers & users of this product.

Section 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Identity: AC FLUSH
New SDS Date: January 3, 2020
Company Identity: Sunair Products, Inc.
Company Address: 2329 Solona St.
 Fort Worth, TX 76117
 1-817-831-6301
Emergency Phones: 1-800-727-2979

Section 2. HAZARDS IDENTIFICATION

SYMBOLS

SIGNAL WORD; DANGER



Emergency Overview: DANGER

Form: Liquid **Physical State:** Liquid **Color:** Clear **Odor:** Characteristic / alcohol

OSHA Hazards: Flammable liquid, moderate skin irritant, aspiration hazard, Specific target organ system toxicity - single exposure

GHS Classifications: Flammable liquid Category 2, Skin/Eye Irritation Category 2, Specific target organ systemic toxicity – single exposure; Category 3, central nervous system. Aspiration hazard Category 1

Hazard Statements:

H225: Highly Flammable liquid and vapor! Serious electrostatic hazard!
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Company Identity: **Sunair Products, Inc.**Product Identity: **AC Flush****Precautionary Statements:**

| | |
|-------------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking |
| P233 | Keep container tightly closed |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment |
| P242 | Use only non-sparking tools |
| P243 | Take precautionary measures against static discharge |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |
| P264 | Wash skin thoroughly after handling |
| P271 | Use only outdoors or in well ventilated area |
| P280 | Wear protective gloves/eye protection/face protection |

Response:

| | |
|-----------------------|---|
| P303+P361+P353 | If on skin or hair: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower |
| P304+P340 | If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P312 | Call a POISON CENTER or Doctor/physician if you feel unwell |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 | Remove contaminated clothing and wash before reuse. |
| P370+P378 | In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction. |

Storage:

| | |
|-------------|-------------------------------|
| P403 | Store in well ventilated area |
| P405 | Store locked up |

Disposal:

| | |
|-------------|---|
| P501 | Dispose of contents and container to an approved waste disposal plant |
|-------------|---|

Carcinogenicity: IARC / NTP / ACGIH – No ingredient of this product present at levels greater or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

POTENTIAL HEALTH EFFECTS:

Eyes: can cause irritation to eyes

Ingestion: Can be harmful if ingested

Inhalation: Can be harmful if inhaled. Can cause respiratory tract irritation. Vapors may cause drowsiness and dizziness

Skin: Can cause irritation if absorbed through skin

See Section 11 for other toxicological information (Acute & Chronic Hazards)

Section 3. Composition / Information on Ingredients

| Material | CAS # | EINECS # | Wt% | TWA (OSHA) | TLV (ACGIH) |
|-------------|----------|-----------|---------|------------|-------------|
| Heptane | 142-82-5 | 205-563-8 | 60 – 70 | 500 ppm | 400 ppm |
| Isopropanol | 67-63-0 | 200-661-7 | 25 – 35 | 400 ppm | 200 ppm A4 |

| Material | CAS # | EINECS # | CEILING | STEL (OSHA/ACGIH) | HAP |
|-------------|----------|-----------|------------|-------------------|-----|
| Heptane | 142-82-5 | 205-563-8 | None known | 500 ppm | No |
| Isopropanol | 67-63-0 | 200-661-7 | None known | 400 ppm | No |

This product contains no EPA hazardous air pollutants (HAP) in amounts > 0.1%. Using manufacturers' data, based on EPA Method 311, the following EPA hazardous air pollutants may be present in trace amounts (less than 0.1%): Benzene

Section 4. FIRST AID MEASURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

SWALLOWING:

Rinse mouth. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Rest. Do NOT give liquids to an unconscious or convulsing person.

Section 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION PREVENTIVE MEASURES:

NO open flames, NO sparks & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment & lighting. Do not use compressed air for filling, discharging or handling.

EXTINGUISHING MEDIA:

Use dry powder, AFFF, alcohol-resistant foam, water in large amounts or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES:

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. Use NIOSH approved positive-pressure self contained breathing apparatus.

UNUSUAL EXPLOSION & FIRE PROCEDURES:

EXTREMELY FLAMMABLE!! VAORS CAN CAUSE FLASH FIRE! Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container is very hazardous! Comply with all label precautions!

Section 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE MEASURES: EVACUATE DANGER AREA!

Consult an expert! Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources. Filter respirator for organic vapors.

ENVIRONMENTAL PRECAUTIONS:

Keep spills from entering storm sewers and ditches which lead to waterways.

CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent. Remove to safe place.

Section 7. HANDLING AND STORAGE

HANDLING:

Isolate from oxidizers, heat, sparks electric equipment and open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron, & footwear impervious to this material, Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring liquid. Do not flame cut, saw, drill, braze or weld on empty container. Empty container is very hazardous! Continue all label precautions! To minimize static discharge when transferring liquid, ensure electrical continuity by bonding and grounding all equipment. Use and inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

STORAGE:

Vapors may ignite explosively and spread long distances. Prevent vapor buildup. Put out pilot lights and turn off heaters, electric equipment and other ignition sources during use and until all vapors are gone. Keep in fireproof surroundings. Keep separated from strong oxidants. Keep cool. Do not store above 49 C/120 F. Keep container tightly closed and upright when not in use to prevent leakage.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY EXPOSURE CONTROLS:

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION:

| LOCAL EXHAUST: | Necessary | Mechanical (General) | Acceptable |
|----------------|-----------|----------------------|------------|
| Special | None | Other | None |

Please refer to ACGIH document, "Industrial Ventilation, A manual of Recommended Practices", most recent edition for details.

PERSONAL PROTECTIONS:

Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each work-shift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

Section 9. PHYSICAL & CHEMICAL PROPERTIES

| | |
|---|--|
| APPEARANCE: | Liquid, water white |
| ODOR: | Alcohol |
| ODOR THRESHOLD: | Not Available |
| pH (neutrality): | Not Applicable |
| MELTING POINT / FREEZING POINT: | Not Available |
| BOILING RANGE (IBP, 50%, DRY POINT): | 80 91 97 C / 177 196 207 F |
| FLASH POINT (TEST METHOD): | - 6 C / 20 F (TCC) (Lowest Component) |
| EVAPORATION RATE (n-BUTYL ACETATE = 1): | 2.4 |
| FLAMMABILITY CLASSIFICATION: | Class I B |
| LOWER FLAMMABILITY LIMIT IN AIR (% BY VOLUME): | 1.5 |
| UPPER FLAMMABILITY LIMIT IN AIR (% BT VOLUME): | Not Available |
| VAPOR PRESSURE (MM OF Hg) @ 20 C: | 45.8 |
| VAPOR DENSITY (AIR =1): | 2.8 |
| GRAVITY @ 68/68 f / 20/20 c: | |
| SPECIFIC GRAVITY (WATER =1): | 0.728 |
| POUNDS / GALLON: | 6.060 |
| WATER SOLUBILITY: | Appreciable |
| PARTITION COEFFICIENT (n-OCTANE/WATER): | Not Available |
| AUTO IGNITION TEMPERATURE: | 293 C / 560 F |
| DECOMPOSITION TEMPERATURE: | Not Available |
| REFRACTIVE INDEX: | 1.396 |
| MIXED ANILINE POINT (ACID INSOL): | 68 C / 155 F |
| VOC'S (> 0.44 LBS/SQ IN): | 100 % Vol% / 727.5 g/l / 6.06 lbs /gal |
| TOTAL VOC'S (TVOC): | 100 % Vol% / 727.5 g/l / 6.06 lbs /gal |
| NONEXEMPT VOC'S (CVOC): | 100 % Vol% / 27.5 g/l / 6.06 lbs /gal |
| HAZARDOUS AIR POLLUTANTS (HAPS): | 0.0 Wt, % / 0.0 g/l / 0.000 lbs /gal |
| NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C): | 45.8 |

Section 10. STABILITY & REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Isolate from oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID: Reacts violently with strong oxidants, causing fire & explosion hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide from burning.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11. TOXICOLOGICAL INFORMATION

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause harm to kidneys, blood, nerves, liver or lungs.

SWALLOWING:

Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea. The symptoms of chemical pneumonitis may not show up for a few days.

SUBCHRONIC HAZARDS / CONDITIONS AGGRAVATED

CONTITIONS AGGRAVATED:

Chronic overexposure can cause harm to kidneys, blood, nerves, liver and/or lungs. Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Leukemia has been reported in humans from Benzene. This product contains less than 67 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption through skin may be harmful.

MAMALIAN INFORMATION:

| MATERIAL | CAS# | EINECS# | LOWEST KNOWN LETHAL DOSE DATA |
|-------------|----------|-----------|--|
| Isopropanol | 67-63-0 | 200-661-7 | Lowest Known LD 50 (oral) 5840.0 mg/kg (rats) |
| Heptane | 142-82-5 | 205-563-8 | Lowest Known LC 50 (vapors) 16000 ppm (mice) |
| Isopropanol | 67-63-0 | 200-661-7 | Lowest Known LD 50 (skin) 16400 mg/kg (rabbits) |

Section 12. ECOLOGICAL INFORMATION

AQUATIC ANIMAL INFORMATION: The most sensitive known aquatic group to any component of this product is: Chub 1000 ppm or mg/L (24-hour exposure). Keep out of sewers and natural water supplies. The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in aquatic animals.

MOBILITY IN SOIL: This material is a mobile liquid.

DEGRADABILITY: This product is partially biodegradable.

ACCUMULATION: This product does not accumulate or bio-magnify in the environment.

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Section 13. DISPOSAL CONSIDERATIONS

Processing use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial or local health, safety & pollution laws. If in doubt, contact appropriate agencies.

Section 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: UN1993 Flammable liquids, n.o.s.
(Contains: Heptane, Isopropanol), 3 PG –II

DRUM LABEL: (FLAMMABLE LIQUID)

IATA / ICAO: UN 1993. Flammable liquids, n.o.s.
(Contains: Heptane, Isopropanol), 3 PG –II

IMO / IMDG UN1993 Flammable liquids, n.o.s.
(Contains: Heptane, Isopropanol), 3 PG –II

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

Section 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

This material does not contain any components with a CERCLA RQ or SARA302 RQ and are not reportable to SARA Title III, section 302 or 304 EHS RQ.

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INTERNATIONAL REGULATIONS: The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, China, Europe (EINECS), Japan, Korea, United Kingdom.

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

B2: Flammable liquid.

D2B: Irritation to skin / eyes.

US STATE REGULATIONS

California Proposition 65 - This product does not contain any chemicals at detectable levels known to the state of California to cause cancer, birth defects, or any other reproductive harm

Section 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 1 HEALTH (HMIS): 2 FLAMMABILITY: 3 REACTIVITY: 0

(Personal Protection Rating to be supplied by user based on use conditions.) This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING:

See section 2 for risk and safety statements. Employees should be made aware of all hazards of this material (as stated in the safety data sheet) before handling it

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability of fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions or use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regard to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.