Material Safety Data Sheet

Section 1 CHEMICAL PRODUCT SECTION

Identification: Product Name: Flux Remover Heavy Duty

Product Number: AS1631

Recommend use: Flux remover for rosin and other flux types

Manufacturer: ACL Incorporated

840 W 49th Place Chicago, Il 60609

PH: (01) 847.981.9212 [U.S.A.] FAX: (01) 847.981.9278 [U.S.A.]

Emergency telephone: INFOTRAC: (01) 800.535.5053 (day or night)

Section 2 HAZARDOUS IDENTIFICATION

HMIS HAZARD RATING:

(1) Fire (1) Health (0) Reactivity (B) Protective Equipment

Emergency Overview: Product is non-flammable. Pressurized container may explode when exposed to heat or flame. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion may cause nausea, vomiting, pain, upset stomach, and diarrhea.

Potential health effects:

Skin Contact: This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin.

Eye Contact: Liquid or vapors may irritate the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly.

Ingestion: This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. *Target Organs*: Central Nervous System, lungs, skin, eyes.

Inhalation: This product may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heartbeats. See Section 8 for recommended exposure limits.

Section 3	COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL	C.A.S. Number	EC#	Weight %	EU Classification and Risk phrases
HFC-4310mee	138495-42-8	420-640-8	25-35%	R52-53
Isopropanol	67-63-0	200-661-7	<5%	F; R11 Xi; R36 R67
Acetone	67-64-1	200-662-2	2-12%	F; R11-Xi; R36 R66, R67
Trans-1,2-Dichloroethylen	e 156-60-5	205-860-2	5-15%	F; R11 Xn; R20 R52-53
Solstice 1,1,1,2 Tetrafluoroethane Carbon Dioxide	102687-65-0 811-97-2 124-38-9	Not Established 212-377-0 204-696-9	10-20% 25-35% 5-15%	Not Established not classified not classified

Section 4 FIRST AID MEASURES

Inhalation: Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get prompt medical attention. **Skin Contact**: Immediately flush with plenty of soap and water for at least 15 minutes. If irritation persists, get medical attention.

Ingestion: If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek immediate medical attention. Do not give anything.

Section 5

FIRE FIGHTING MEASURES

Flash Point: concentrate: N/A propellant: N/A

Flammability limits in air: N/A upper % by volume concentrate
N/A lower % by volume concentrate
N/A lower % by volume propellant

Basic Fire Fighting Procedures: Pressurized Container: May explode when exposed to heat or flame. Empty containers may retain product residue including Flammable or Explosive vapors. DO NOT cut, drill, grind, or weld near full, partially full, or empty product containers.

Fire Fighting Instructions: Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Extinguishing Media: Use dry chemical, carbon dioxide, or foam. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools this may results in frothing and increase fire intensity.

Special Fire Fighting Procedures: Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors. **Unusual Fire & Explosion Hazards:** During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water

Section 6

ACCIDENTAL RELEASE MEASURES

Emergency Action: Remove all sources of ignition and ventilate area. Evacuate the area promptly and keep upwind of the spilled material.

Containment: Isolate the spill area to prevent people from entering. Wear appropriate protective equipment and clothing during clean-up. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with non-flammable absorbent and place in closed chemical waste containers.

Section 7

HANDLING AND STORAGE

Handling: Keep this product away from heat, sparks or open flame. Avoid sources of ignition. Avoid getting this material into contact with your skin and eyes. Avoid breathing mists or aerosols of this product. Use this product with adequate ventilation. Do not reuse the empty container.

Storage: Store in a cool, dry, well-ventilated area. Keep away from direct sunlight.

Storage Temperatures: Ambient. Avoid freezing and do not store at temperatures above 120 ° F (48.9°C)

Storage Pressure: Atmospheric

General: Read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

Empty Container Precautions: Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container.

Section 8 EXPOSURE CONTROL / PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Exposure Limits 8 Hours TWA (ppm)

Component(s) TLV OSHA-PEL

HFC-43-10mee None established

Isopropyl Alcohol 400ppm

Acetone 500ppm 1000ppm

Trans-1,2-Dichloroethylene 200ppm

Solstice No data available

1,1,1,2 Tetrafluoroethane 1000ppm

Engineering Controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Personal Protection:

General: Use good hygiene practices in handling this material.

Respiratory Protection: Use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA).

Skin and Body Protection: Impervious gloves should be used when handling this product. Use of protective coveralls and long sleeves is recommended.

Eye Protection: Wear goggles or safety glasses with side shields.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point......NA pH.....NA

Specific Gravity< 1.0

Physical State.......Aerosol / liquid Odor......Characteristic

Section 10 STABILITY AND REACTIVITY

General: This product is stable under normal storage conditions. Hazardous polymerization will not occur.

Incompatible Materials: Strong oxidizing agents, reducing agents, acids, bases.

Hazardous Decomposition: Carbon monoxide, carbon dioxide and hydrocarbon vapors.

Conditions to Avoid: Keep away from heat, direct sunlight, open flames, sparks, or sources of ignition.

Section 11 TOXICOLOGY INFORMATION

HFC-43-10mee: Oral LD50: >5,000 mg/kg (rat)

Dermal LD50: >5,000 mg/kg (rabbit)

Isopropyl Alcohol: Oral LD50: 3600 mg/kg (mouse)

Inhalation LC50: 16000 mg/kg (rat) Dermal LD50: 12800 mg/kg (rabbit)

Acetone: Oral LD50: 5,800 mg/kg (rat)

Inhalation LC50: >16000 ppm/4H (rat) Dermal LD50: >20,000 mg/kg (rabbit)

Trans-1, 2-Dichloroethylene: Oral LD50: 1235 mg/kg (rat)

Solstice: No information available

1,1,1,2 Tetrafluoroethane: No information available.

Section 12 ECOLOGICAL INFORMATION

No information

Section 13

DISPOSAL CONSIDERATIONS

Do not puncture, incinerate or compact aerosol can.

When contents are depleted continue to depress button until all gas is expelled.

RCRA 40 CFR 261 Classifications: As packaged and after use, it does not meet the criteria of a hazardous waste as defied under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it has neither the characteristics of Subpart C nor is listed in Subpart D.

Waste Disposal: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14

TRANSPORTATION INFORMATION

U.S. DOT Information: Basic Description: NON HAZARDOUS MATERIAL

Proper Shipping Name: Consumer Commodity

Hazard Class: NA Packaging Group: NA UN Number: NA Limitations: NA

IATA: Proper Shipping Name: Aerosols, Non-Flammable

Hazard Class: 2.2 Packing Group: NA UN Number: 1950 Limited Quantity: Y203

Ocean: Proper Shipping Name: Aerosols, Non-Flammable

Hazard Class: 2.2 Packing Group: NA UN Number: 1950 Limited Quantity: Y203

Section 15

REGULATORY INFORMATION

United States Federal Regulations: MSDS complies with the OSHA, 29 CFR 1910.1200.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – None of the chemicals are EPCRA hazards CERCLA/Superfund, 40 CFR 117, 302: Acetone 5,000 RQ

CHEMICAL C.A.S. Number Weight % Section 311/312

Acetone 67-64-1 30-40% Acute Health Hazard; Fire Hazard

Isopropanol 67-63-0 < 5% Fire Hazard

Section 313 – List of Toxic Chemicals (40CFC 372): This product contains the following chemicals (at level of 1% or greater) which are found on the 313 list of Toxic Chemicals.

Chemical C.A.S. NUMBERIsopropyl Alcohol 67-63-0 WEIGHT % 2-12%

Toxic Substance Control Act (TSCA): All substances are TSCA listed.

Resource Conservation and Recovery Act (RCRA 40 CFR 261) Subpart C & D: Refer to Section 13 Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15 (formerly section 307) 40 CFR 116 (formerly section 311): This product does not contain listed chemicals

STATE REGULATIONS:

This MSDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65: Chemicals in this product are not on the list.

California Safer Consumer Products list(SCP): Isopropyl Alcohol is a candidate: Developmental Tox; Nephrotox,

Urinary System; Ocular Tox; Respiratory Tox (authoritative list: OEHHA RELs)

Acetone is a candidate for the SCP: Candidate:Neurotox (Authoritative list: ATSDR Neurotoxicants)

INTERNATIONAL REGULATIONS:

Canada WHMIS: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

REACH: This product does not contain any substance listed on the Substances of Very High Concern (SvHC).

Sections 16 OTHER INFORMATION

REVISION DATES, SECTIONS, REVISED BY:

19-Aug-13 Original Preparer: Steve Allen 09-OCT-13 revised section 16, mkb

10-Jan-14 Changed name and part#, mkb

ABBREVIATIONS USED IN THIS DOCUMENT:

NE - Not Established, NA - Not Applicable, NIF - No Information Found, ND - Not Determined

ABRIDGED LIST OF REFERENCES:

Code of Federal Regulations (CFR)

The Sigma-Aldrich Library of Regulatory and Safety Data

Chemical Guide and OSHA Hazardous Communication Standard

The Environmental Protection Agency (www.epa.gov)

http://oehha.ca.gov/prop65/prop65_list

http://orise.orau.gov/emi/hazards-assessment/files/resources/epa-title3.pdf

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