Safety Data Sheet

according to OSHA Hazard Communication
29 CFR Part 1910.1200

SECTION 1. Identification

Product Code 495-1

Product Name: Aircraft Paint Stripper

Supplied by:
Quest Automotive Products
600 Nova Drive SE
Massillon, OH 44646
General Assistance: (330) 830-6000
E-mail: rpandrus@quest-ap.com
Contact: Ron Andrus
Emergency Phone Number: CHEMTREC (800)424-9300

SECTION 2. Hazard(s) Identification

DANGER: Flammable liquid and vapor. May be fatal or cause blindness if swallowed. Corrosive. Can cause eye burns and permanent tissue damage. Can cause permanent injury to the eyes. Suspect cancer hazard - Risk of cancer depends on duration and level of exposure. Can cause adverse reproductive effects- such as birth defects, miscarriages or infertility.

GHS Classification
Acute Tox. 3, Carc. 2, Eye Irrit. 2, Muta. 1A, Repr. 1A, STOT SE 2, Skin Irrit. 2

Symbol(s) of Product

Signal Word
Danger

Possible Hazards
2% of the mixture consists of ingredient(s) of unknown acute toxicity

GHS HAZARD STATEMENTS

Acute Toxicity, Oral, category 3	H301	Toxic if swallowed.
Acute Toxicity, Dermal, category 3	H311	Toxic in contact with skin.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Germ Cell Mutagenicity, category 1A	H340	May cause genetic defects.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive Toxicity, category 1A	H360	May damage fertility or the unborn child.
STOT, single exposure, category 2	H371	May cause damage to organs.

GHS PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do no eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
P302+P352	IF ON SKIN: Wash with plenty of water
P304+P340	IF INHALED: Remove person to fresh air and keep 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 rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physician
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P321	Specific treatment (see first aid section on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Methylene chloride	75-09-2	75-100	GHS06-GHS08	H302-311-331-340-351-360
Methanol	67-56-1	2.5-10	GHS02-GHS06-GHS08	H225-300-332-370
Phosphate ester	51811-79-1	2.5-10	GHS05-GHS06	H302-311-314
Ethyl alcohol	64-17-5	2.5-10	GHS02-GHS07	H225-312-315-320-335
2-aminoethanol	141-43-5	1.0-2.5	GHS05-GHS07	H302-312-314-335
Hydroxypropyl methylcellulose	9004-65-3	1.0-2.5	No Information	No Information

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

SECTION 4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

FIRST AID - SKIN CONTACT: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

FIRST AID - INHALATION: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

FIRST AID - INGESTION: Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.

SECTION 5. Fire-Fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. Vapors/dust may form explosive mixture with air. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Avoid use of solid water streams. Water may be ineffective. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Small fires: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Large fires: Water spray, water fog, and alcohol-resistant foam.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

SECTION 6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED: Wear appropriate personal protective equipment. (See

Exposure Controls / Personal Protection Section.)Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor supressing foam may be used to reduce vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Flush spill area with water spray. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

SECTION 7. Handling and Storage


HANDLING: Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Take precautionary measures against static discharge. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

STORAGE: Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight. Do not permit dust to accumulate.

SECTION 8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Methylene chloride	50 ppm	125 ppm	25 ppm	N.D.
Methanol	200 ppm	250 ppm	200 ppm	N.D.
Phosphate ester	1mg/m3	3 mg/m3	1mg/m3	
Ethyl alcohol	N.A.	1000.0 ppm	1000.0 ppm	N.D.
2-aminoethanol	3 ppm	6 ppm	3 ppm	N.D.
Hydroxypropyl methylcellulose				

Personal Protection

RESPIRATORY PROTECTION: Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

SKIN PROTECTION: Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed - apron, suit, boots. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

EYE PROTECTION: Do not wear contact lenses. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

SECTION 9. Physical and Chemical Properties

Appearance:	Clear, red liquid	**Physical State:**	Liquid
Odor:	Typical	**Odor Threshold:**	N.D.
Density, g/cm3:	1.213	**pH:**	N.D.
Freeze Point, °F:	N.D.	**Viscosity:**	N.D.
Solubility in Water:	Slight	**Explosive Limits, vol%:**	1.0 - 22.0
Boiling Range, °F:	104 - 340	**Flash Point, °F:**	N.D.
Evaporation Rate:	N.D.	**Auto-ignition Temp., °F:**	N.D.
Vapor Density:	N.D.	**Vapor Pressure:**	N.D.

(See "Other information" Section for abbreviation legend)

SECTION 10. Stability and Reactivity

STABILITY: No Information

CONDITIONS TO AVOID: Avoid impact, friction, heat, sparks, flame and source of ignition. Minimize exposure to air.

INCOMPATIBILITY: Avoid contact with strong reducing agents. Keep separate from alkalies. Do not add or formulate with nitrates. Avoid contact with hydrogen peroxide, chromic anhydride, nitric acid, mixed nitric/sulfuric acid, nitrosyl perchlorate, permonosulfuric acids, potassium tert-butoxide, sodium hypobromite, chlorinated melamine. Avoid contact with moisture and/or water. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Keep away from strong bases. Avoid contact with amines. Keep away from acids. Avoid contact with concentrated sulfuric or nitric acid. Avoid prolonged contact with alkali sensitive metals. May be corrosive to aluminum, magnesium, titanium, and their alloys. May be corrosive to iron, stainless steel, copper, and nickel in the presence of air and water, and especially at elevated temperatures. May react violently with alkali and alkaline earth metals such as sodium, potassium and barium.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. At decomposition temperature, chlorine gas may be emitted. Decomposition releases nitrogen oxides. Combustion can lead to the formation of ammonia. Decomposition under fire conditions can lead to the formation of oxides of phosphorus. Combustion can lead to the formation of formaldehyde. Combustion can lead to formation of formic acid. May release hydrogen chloride under fire conditions.

HAZARDOUS POLYMERIZATION: No Information

SECTION 11. Toxicological Information

Information on Toxicological Effects

EFFECTS OF OVEREXPOSURE - INHALATION: May be harmful if inhaled. Can cause pulmonary edema. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). Prolonged exposure to high concentrations can cause central neurological depression and EEG abnormalities. Easily absorbed through lungs. Excessive exposure may cause carboxyhemoglobinemia, therefore impairing the blood's ability to transport oxygen. Irritating to the respiratory system. May cause drowsiness and dizziness. Causes delayed lung injury. Repeated or prolonged exposure may cause liver and kidney damage.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Corrosive, causes burns and permanent skin damage (scarring). Skin absorption may add significantly to the overall toxic effect. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Corrosive. Can cause eye burns and permanent tissue damage. May cause corneal injury. Symptoms may include stinging, tearing, redness and swelling.

EFFECTS OF OVEREXPOSURE - INGESTION: May be fatal or cause blindness if swallowed. Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. Harmful or fatal if liquid is aspirated into lungs. Cause (target organ or system) damage. (e.g., lung, nervous system, blood disorders, liver, kidney, immune system, cardiovascular system, thyroid, testicular, ovarian, etc.). Components of this product may be absorbed into the body by ingestion. Ingestion may cause gastrointestinal tract irritation. Ingestion may result in nausea, vomiting, diarrhea and restlessness. May cause dizziness and drowsiness and/or stupor.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Material is slowly eliminated from the body, therefore it can have cummulative toxicity effects with repeated exposures. May cause unconsciousness, corneal damage, narcosis, cyanosis (blue tissue condition, nails, lips and/or skin), sterility, liver injury, central nervous system disorder (e.g., narcosis invloving a loss of coordination,

weakness, fatigue, mental confusion and blurred vision) and other damage. Pregnant women or women of child-bearing age should not be exposed to this product. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Overexposure may cause nervous system damage. Suspect cancer hazard - Risk of cancer depends on duration and level of exposure. May cause delayed lung damage. Possible reproductive hazard. Overexposure may cause kidney damage. May cause liver disorder (e.g., edema, proteinuria) and damage. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes.

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name according to EEC	Oral LD50, mg/kg	Dermal LD50, mg/kg	Vapor LC50, mg/L
75-09-2	Methylene chloride	>520	>810	>76
67-56-1	Methanol	5.628	15,800	20.0
51811-79-1	Phosphate ester	500-5,000	N.D.	N.D.
64-17-5	Ethyl alcohol	>7,060	>1,440	>19,977.18
141-43-5	2-aminoethanol	>1,720	>1,000	>1,210

SECTION 12. Ecological Information

ECOLOGICAL INFORMATION: No Information

SECTION 13. Disposal Considerations

For more guidance and information contact our Waste Services Division at (262) 658-4000.

Always dispose of any waste in accordance with all local, state, and federal regulations.

DISPOSAL METHOD: Dispose of waste in accordance with all local, state and federal regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED: Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.)Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor supressing foam may be used to reduce vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Flush spill area with water spray. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

SECTION 14. Transport Information

DOT Proper Shipping Name:	Dichloromethane mixture	**Packing Group:**	III
DOT Hazard Class:	6.1	**Hazard SubClass:**	No Information
DOT UN/NA Number:	UN1593	**Resp. Guide Page:**	160

SECTION 15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
Methylene chloride	75-09-2
Methanol	67-56-1
acetaldehyde	75-07-0
dioxane	123-91-1
Toluene	108-88-3
Xylene	1330-20-7
Ethylbenzene	100-41-4
Benzene	71-43-2

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product. No

NJ Right-To-Know components exist in this product.

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product are at or greater than 3%.

No PA Right-To-Know components exist in this product.

CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name	CAS-No.
Methylene chloride	75-09-2
acetaldehyde	75-07-0
dioxane	123-91-1
Ethylbenzene	100-41-4
Benzene	71-43-2

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name	CAS-No.
Methanol	67-56-1
Toluene	108-88-3
Benzene	71-43-2

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: No Information

SECTION 16. Other Information

Revision Date: 7/29/2014 **Supersedes Date:** New SDS

Datasheet produced by: EH&S - Regulatory Department

HMIS Ratings:

Health:	2	**Flammability:**	1	**Reactivity:**	0 - No Hazard	**Personal Protection:**	X

Volatile Organic Compounds, gr/ltr: 168

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/ REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, EMCO MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH VOC STANDARDS/ REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapor.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H320	Causes eye irritation
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02

GHS05

GHS06

GHS07

GHS08

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.