SAFETY DATA SHEET

Poly- Spray

1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

PRODUCT NAME:	**Poly-Spray**
PRODUCT NUMBER:	2-PS
RECOMMENDED USE:	Aircraft coatings and cleaners
RESTRICTIONS ON USE:	Not applicable
SUPPLIER:	Poly-Fiber, Inc. P.O. Box 3129, Riverside, CA 92519, USA 4343 Fort Drive, Riverside, CA 92509, USA (951) 684-4280 (951) 809-7144 (760) 782-1947
EMERGENCY TELEPHONE:	(800) 424-9300 (Chemtrec- US) (703) 527-3887 (International – Call Collect)

2 - HAZARDS IDENTIFICATION

GHS Hazard Category

Flammable Liquids	Category 2
Carcinogenicity	Category 2
Eye Irritation	Category 2A
Skin Irritation	Category 2
Respiratory Irritation	Category 3

Specific target organ toxicity (single exposure) – Category 3, Central Nervous System
Specific Target Organ Toxicity (Repeated exposure), Category 2

Aspiration Hazard	Category 1
Acute toxicity, Oral	Category 4
Acute toxicity, Inhalation	Category 4
Chronic aquatic hazard	Category 2

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poison Schedule:	6
Australian Inventory of Chemical Substances (AICS)	Listed
New Zealand Inventory of Chemicals (NZIoC)	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB 76)	16

Label Elements

Pictograms

Signal Word

DANGER

Hazard Statements

⚠ **WARNING:** This product can expose you to chemicals including Methyl Isobutyl Ketone, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www. P65Warnings.ca.gov

H224: Extremely flammable liquid and vapour
H225: Highly flammable liquid and vapour
H226: Flammable liquid and vapour

H228: Flammable solid
H302: Harmful if swallowed
H304: May be fatal if swallowed and enters airways
H311: Toxic in contact with skin
H315: Causes skin irritation
H318: Causes serious eye damage
H319: Causes serious eye irritation
H331: Toxic if inhaled
H332: Harmful if inhaled
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
H340: May cause genetic defects
H350: May cause cancer
H351: Suspected of causing cancer
H360: May damage fertility or the unborn child
H361: Suspected of damaging fertility or the unborn child
H373: May cause damage to organs through prolonged or repeated exposure
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal
P501 Dispose of contents/ container to an approved RCRA waste disposal plant.

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3 – COMPOSITION /INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content %	Classification (67/548/EEC)
Toluene	203-625-9	108-88-3	30-40%	Flammable Liquids,Category 2- H225 Aspiration Hazard, Category 1- H304 Toxic to Reproduction,Category 1A-H360 Specific Target Organ Toxicity (Repeated exposure), Category 2- H373 Skin Corrosion/Irritation,Category 2- H315
Methyl Ethyl Ketone	201-159-0	78-93-3	10-20%	Flammable Liquids,Category 2- H225 Serious Eye Damage/Irritation,Category 2A- H319 Specific Target Organ Toxicity (Single exposure),Category 3- H335, H336
Methyl Isobutyl Ketone	203-550-1	108-10-1	10-20%	Flammable Liquids,Category 2-H225 Carcinogenicity,Category 2-H351 Serious Eye Damage/Irritation, Category 2A-H319 Acute Toxicity –Inhalation,Category 4-H332 Specific Target Organ Toxicity (Single exposure),Category 3-H335
Methyl n-Amyl Ketone	203-767-1	110-43-0	0-10%	Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332
Propylene Oxide	200-879-2	75-56-9	0-10%	Flammable liquids (Category 1), H224 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318

				Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Specific target organ toxicity - single exposure (Category 3), Respiratory system
Aluminum Powder	231-072-3	7429-90-5	0-10%	Flammable solids(Category 1), H228
Aromatic Solvent	265-198-5	64742-94-5	0-10%	Flammable liquids (Category 1), H224 Skin irritation (Category 2), H315 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Aspiration hazard (Category 1), H304 Long-term (chronic) aquatic hazard (Category 2), H411
Stoddard Solvent	232-489-3	8052-41-3	0-10%	Flammable liquid: Category 2, H226 Eye Irritation: Category 2A, H319 Skin Irritation: Category 2,H315 Specific Target Organ Toxicity (single exposure): Category 3, H336 Hazardous to the aquatic environment, chronic: Category 2, H411

The Full Text for all H-Statements and P-Statements is displayed in Section 15

COMPOSITION COMMENTS
The data shown are in accordance with the latest GHS Directives.

4- FIRST AID MEASURES

INHALATION:
Move the victim to a fresh air place immediately. Get medical attention if discomforts persist.
INGESTION:
Rinse mouth with clean water immediately. DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep the victim's head low so that vomits from the stomach will not enter the lungs.
SKIN CONTACT:
Remove contaminated clothing and flush the affected skin areas with clean water for at least 15 minutes. Get medical attention if discomforts persist.
CONTACT:
Make sure all contact lenses are removed before flushing the eyes with eye lids open with clean water for at least 15 minutes. Get medical. attention promptly if symptoms occur after washing

5- FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA:
Fire can be extinguished by using Foam, carbon dioxide, or dry powder Dry Chemicals, sand, dolomite, etc…
SPECIAL FIREFIGHTING PROCEDURES:
Do not use a direct stream of water. Product may float and can be reignited on the surface of the water. Do not enter a confined area without full bunker gear including a positive-pressure NIOSH-approved self-contained breathing apparatus. Decomposition products may form toxic materials.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Never use welding or cutting torch on or near drum (even empty) because residue or product can ignite explosively. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, flames and other ignition sources at locations distant from the material handling point. Flammable material.

6-ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Wear protective clothing as described in Section 8.
ENVIRONMENTAL PRECAUTIONS:

Spillages or uncontrolled discharges into watercourses must immediately be alerted to Environmental Agency or other appropriate regulatory authority.
SPILL CLEANUP METHODS:
Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, open flames, and smoking. Ventilate. Absorb in vermiculite, dry sand, or earth and place into containers for disposal.

7-HANDLING AND STORAGE

USAGE PRECAUTIONS:
Keep away from heat, sparks and open flames. Avoid spilling, skin and eyes contact. Use with adequate ventilation and avoid excessive exposure to solvent vapors. Use approved respirator if air contamination exceeds the accepted level.
STORAGE PRECAUTIONS:
FLAMMABLE/Combustible. Keep away from oxidizers, open flames and other ignition sources. Keep unused contents in original container and tightly closed lids. Store in a cool, dry and well-ventilated place and at an ambient Temperature not to exceeding above 120° F.
STORAGE CLASS:
FLAMMABLE liquid storage.

8-EXPOSURE CONTROL/PERSONAL PROTECTION

Name	Workplace Exposure Limits	Remarks
Toluene	ACGIH: 20 ppm TWA NIOSH: 100 ppm TWA; 375 mg/m3 TWA 500 ppm IDLH OSHA-Final PELs: 200 ppm TWA; 300 ppm Ceiling	Consult local authorities for acceptable exposure limits.
Methyl Ethyl Ketone	ACGIH: 200ppm TWA; 300ppm STEL NIOSH: 200ppm TWA;590 mg/m^3 TWA; 3000ppm IDLH OSHA –Final PELs: 200ppm TWA; 590 mg/m^3 TWA	Same As Above
Methyl Isobutyl Ketone	ACGIH: 50 ppm; 75 ppm STEL NIOSH: 50 ppm TWA; 205 mg/m3 TWA 500 ppm IDLH OSHA-Final PELs: 100 ppm TWA; 410 mg/m3 TWA	Same As Above
Methyl N-Amyl Ketone	ACGIH: 50 ppm TWA OSHA: 100 ppm TWA	Same As Above
Propylene Oxide	ACGIH: 2ppm TWA NIOSH: 400 ppm TWA OSHA-Final PELs: 100ppm TWA,240 mg/m3 TWA 240 mg/m3 TWA	Same As Above
Aluminum Powder	ACGIH: 10 mg/m3 TWA (metal dust) NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust) OSHA-Final PELs: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Same As Above
Aromatic Solvent	ACGIH: Not Established OSHA-Final PELs: Not Established Mfg.:100mg/m3 (19 ppm)	Same As Above
Stoddard Solvent	ACGIH: 100ppm TWA NIOSH: 350 mg/m3 TWA 20000 mg/m3 IDLH OSHA-Final PELs: 500 ppm TWA; 2900 mg/m3 TWA	Same As Above

PROTECTIVE EQUIPMENTS:	
PROCESS CONDITIONS:	Provide eyewash station.
ENGINEERING MEASURES:	Provide adequate ventilation. Fully equipped spray booth is recommended to ensure the workers legal exposure limits are not exceeded.
RESPIRATORY EQUIPMENT:	Wear respirator with appropriate cartridge for organic solvents and chemicals.
HANDPROTECTION:	Wear approved gloves such as Neoprene, Nitrile or Rubber types.
EYE PROTECTION:	Wear splash-proof goggles.
OTHER PROTECTION:	Wear appropriate clothing to prevent any possible skin contact.
HYGIENE MEASURES:	DO NOT SMOKE IN THE WORK AREA. Wash at the end of each work shift and before eating, drinking or smoking. Promptly remove contaminated clothing.

9- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Opaque Liquid
COLOR:	Aluminum
ODOR:	Ketone characteristics
BOILING POINT:	175-300ºF
RELATIVE DENSITY:	0.915 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	43ºF (Closed Cup) / 6ºC
FLAMMABILITY LIMITS:	0.8 (Lower%)
SOLUBILITY VALUE (g/100g H_2O @ 20ºC):	Insoluble
VOLATILE ORGANIC COMPOUND (VOC):	736 g/L

10- STABILITY AND REACTIVITY

STABILITY:
Stable
CONDITIONS TO AVOID:
Heat and fires. Ignition sources.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkalines or strong oxidizers. This material may dissolve some plastics, rubber compounds or coatings. May react strongly with acids while in liquid form. .
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Hydrogen chloride and very small amounts of phosgene and chlorine.
HAZARDOUS POLYMERIZATION:
N/A

11-TOXICOLOGICAL INFORMATION

Toluene (CAS# 108-88-3): ACGIH: A4-Not Classifiable as a Human Carcinogen; IARC: Group 3 carcinogen; No other toxicological information available.
Methyl Ethyl Ketone (CAS# 78-93-3):LD50/rabbit/skin/draize test = 500mg/24H moderate; LC50/mouse/inhalation = 32mg/m3/4H; Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.
Methyl Isobutyl Ketone (CAS#108-10-1):LD50/rat/oral = 2080mg/kg; Carcinogenicity: Not listed by NTP or IARC.
Methyl n-Amyl Ketone (CAS#110-43-0): LD50/rabbit/dermal = 12.6mL/kg;LD50/rat/oral = 1600mg/kg; Carcinogenicity: Not listed by IARC, NTP or OSHA.
Propylene Oxide (CAS#75-56-9):LC50/mouse = 1740ppm, 4 hrs; Carcinogenicity: listed in NTP and classified by IARC.
Aluminum Powder (CAS#7429-90-5): LD50/LC50: No data available. Carcinogenicity**:** Not listed by ACGIH, IARC, NTP, or CA Prop 65
Aromatic Solvent (CAS#64742-94-5): LD50/rabbit/ skin/draize test = 500 uL/24H Mild; LC50/rat/inhalation >590 mg/m3/4H; LD50/ rabbit/skin >2 mL/kg; Carcinogenicity: Not listed by ACGIH, IARC, NTP or CA Prop. 65. Epidemiology**:** Epidemiological studies involving petroleum refinery workers indicate persons with routine exposure to petroleum or one of its constituents may be at an increased risk to the development of benign neoplasm's, digestive tract cancer, and skin cancer. Teratogenicity: No information found Reproductive Effects: No information found Mutagenicity**:** No information found .Neurotoxicity: No information found
Stoddard Solvent (CAS#8052-41-3): LD50/rabbit/ eye/draize test = 500 mg/24H Moderate; Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: Epidemiological studies involving petroleum refinery workers indicate persons with routine exposure to petroleum or one of its constituents may be at an increased risk to the development of benign neoplasm's, digestive tract cancer, and skin cancer. Teratogenicity**:** No information found Reproductive Effects: No information found. Mutagenicity: No information found. Neurotoxicity: No information found.

12- ECOLOGICAL INFORMATION

Toluene (CAS#108-88-3): Ecotoxicity: No data available; Environmental: From soil, substance evaporates and is microbially biodegraded. In water, substance volatilizes and biodegrades; Physical: Photo chemically produced hydroxyl radicals degrade substance.
Methyl Ethyl Ketone (CAS#78-93-3): Ecotoxicity : Fish/Fathead Minnow/LC50 = 3220mg/l; Environmental : Substance evaporates in water with T1/2=3D (rivers) to 12D (lakes); Physical : Substance photo degrades in air with T1/2=2.3 days.
Methyl Isobutyl Ketone (CAS#108-10-1): Ecotoxicity : Not expected to be toxic to terrestrial life; Environmental : substance evaporates and biodegrades when released to soil, water and air.
Methyl n-Amyl Ketone (CAS#110-43-0): Ecotoxicity: No data available.
Propylene Oxide (CAS#75-56-9): Ecotoxicity: No adverse ecological effects expected. Environmental: This substance does not contain Class I and II ozone-depleting chemical.
Aluminum Powder (CAS#7429-90-5): No information available.
Aromatic Solvent (CAS#64742-94-5): No information available.
Stoddard Solvent (CAS#8052-41-3): Ecotoxicity: No data available. No information available. Environmental: No information available. Physical: No information available.

13 – DISPOSAL CONSIDERATIONS

Hazardous wastes should be sent to a RCRA approved incinerator or disposed of in a RCRA approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.
I certify that all chemical substances in this shipment comply with all applicable rules or orders under TSCA and that I am not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.

14 – TRANSPORT INFORMATION

DOT / ADR / RID Classification:

DOT PROPER SHIPPING NAME: PAINT
PRIMARY HAZARD CLASS/DIVISION: 3
UN/UA NUMBER: UN1263
PACKING GROUP: II

IMDG and ADN Classification:

IMDG PROPER SHIPPING NAME: PAINT
IMDG UN CLASS: 3
IMDG UN NUMBER: UN1263
IMDG PACKING GROUP: II
IMDG LABEL: FLAMMABLE LIQUID
IMDG VESSEL STOWAGE: B

Air shipping this product is not advised and if done must be handled by a certified carrier according to IATA rules.

15 – REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poison Schedule:	6
Australian Inventory of Chemical Substances (AICS)	Listed
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GHS LABEL:

DANGER

HIGHLY FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL. CAUSES SERIOUS EYE DAMAGE. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED AND ENTERS AIRWAYS.

Refer to SDS for additional information on safe handling / use. - Keep out of reach of children. For industrial use only.

Contains: Toluene (30-40%), Methyl Ethyl Ketone (10-20%), Methyl Isobutyl Ketone (10-20%), Methyl n-Amyl Ketone (0-10%), Propylene Oxide (0-10%), Aluminum Powder (0-10%), Aromatic Solvent (0-10%), and Stoddard Solvent (0-10%).

⚠ **WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www. P65Warnings.ca.gov**

Hazard Statements

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H361: Suspected of damaging fertility or the unborn child
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P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.

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P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
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P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
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Storage

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P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal
P501 Dispose of contents/ container to an approved RCRA waste disposal plant.

16- DISCLAIMER

Above information is based on data supplied to us and is believed to be correct. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. It is the user's obligation to determine the safe use of it.