



# SAFETY DATA SHEET

Mirror Image

Revision Date

4/4/2017

## SECTION - 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	<b>Mirror Image</b>	<b>Item</b>	<b>MI</b>
<b>Product Use</b>	Metal Swirl Remover and Light Maintenance		
<b>Company Name</b>	Jet Stream Aviation Products	<b>Office</b>	(972) 542-2400
	1971 University Business Dr. Suite 102	<b>Fax</b>	(972) 542-0238
	McKinney Tx 75071	<b>Web</b>	<a href="http://www.jetstreamproducts.com">www.jetstreamproducts.com</a>
	<b>EMERGENCY TELEPHONE NUMBER</b>	<b>INFOTRAC</b>	<b>(800) 535-5053</b>

## SECTION - 2 HAZARDS INFORMATION

<b>Physical Hazards</b>	FLAMMABLE LIQUIDS-Category 3
<b>Health Hazards</b>	EYES-Category 2B; SKIN-Category 2; STOT SINGLE EXPOSURE-Category 3; ASPIRATION-Category 1
<b>Environmental</b>	CHRONIC-Aquatic Toxicity-Category 4



Flammables



Irritant (skin)  
Narcotic Effects  
Respiratory Tract Irritant



Aspiration Toxicity

**Danger** Flammable liquid and vapor  
Causes eye irritation, Causes skin irritation, May be fatal if swallowed and enters airways, May cause respiratory irritation and/or drowsiness or dizziness  
Keep away from flames and hot surfaces, No smoking, Keep container tightly closed, Do not get in eyes or on skin, and avoid inhalation of mist or vapor, or inhale dust, Do not smoke, eat or drink while using, Use only outdoors or in a well-ventilated area, Use proper Safety Equipment, safety glasses, rubber gloves, and dust mask, Wash thoroughly with soap and water after handling, Avoid release into the environment, Keep out of reach of children

## SECTION - 3 COMPOSITION INFORMATION (Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<u>IMPURITIES</u>	<u>PERCENT</u>
Odorless Mineral Spirits	Isoalkanes C10-C13, Hydrocarbon Solvent	68551-17-7		60 - 90%

## SECTION - 4 FIRST AID MEASURES

<b>EYE CONTACT</b>	Immediately flush eyes with cold water for several minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists seek medical aid
<b>SKIN CONTACT</b>	Wash contaminated skin with plenty of water, Remove any contaminated clothing and wash before reuse, If irritation occurs or persists seek medical aid
<b>INHALATION</b>	Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention
<b>INGESTION</b>	DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention
<b>Aspiration Hazard</b>	Aspiration into the lungs can cause severe lung damage and is a medical emergency, If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into the lungs, Never give anything by mouth to an unconscious person. Call a physician or hospital emergency room immediately, If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing, Can be harmful if swallowed and enters airways

### ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

<b>Eyes</b>	Can cause serious eye irritation, discomfort, redness, tearing
<b>Skin</b>	Can cause skin irritation, itching, redness, drying or cracking
<b>Inhalation</b>	Mist or vapor may cause mild irritation, to respiratory tract
<b>Ingestion</b>	May be harmful if swallowed, May cause irritation, of the mouth, throat, and esophagus, May cause lung damage if swallowed and enters airways

### CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

<b>Eyes</b>	Causes serious eye irritation, redness, tearing, burning, or pain
<b>Skin</b>	Causes skin irritation, itching, redness, burning, drying or cracking
<b>Inhalation</b>	Mist or vapor may cause irritation, to mucus membranes or respiratory tract, Symptoms may include, headache, dizziness or drowsiness
<b>Ingestion</b>	May be harmful if swallowed, May cause irritation, of the mouth, throat, esophagus, and stomach, May be fatal if swallowed and enters airways, Symptoms may include, dizziness, drowsiness, nausea, vomiting, abdominal pain, central nervous system depression

**SECTION – 5 FIRE FIGHTING MEASURES**

<b>Extinguishing Media</b>	Use DRY chemicals, CO2, alcohol foam. Water spray to cool or protect exposed materials
<b>Hazardous Decomposition</b>	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, silicon oxides, and other toxic fumes
<b>Reactive With</b>	Reactive with, strong reducing agents, strong bases, strong acids
<b>Explosion Hazards</b>	Containers may erupt when heated excessively during a fire
<b>Static Discharge</b>	Not applicable
<b>Mechanical Impact</b>	Not applicable
<b>Protective Equipment</b>	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

**FLAMMABLE LIQUIDS HAZARD CLASSIFICATION**

**Criteria** Flash point  $\geq 37.8^{\circ}\text{C}$  ( $100^{\circ}\text{F}$ ) and  $\leq 60^{\circ}\text{C}$  ( $140^{\circ}\text{F}$ )  
**NFPA** Class II  
**GHS** Category 3  
**WHMIS** Class B-3

**NFPA HAZARD RATINGS**

**Health** 1  
**Flammability** 2  
**Reactivity** 0  
**Special Hazards**

**SECTION – 6 ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures</b>	Warn personnel of spill
<b>Personal Precautions</b>	Eliminate ignition sources and ventilate area, Wear Personal Protective Equipment, Do not walk through spill
<b>Protective Equipment</b>	Safety Glasses, Gloves
<b>Containment</b>	Use sand or inert non-combustible absorbent pads to prevent spill from spreading, Prevent spill from entering the environment
<b>Clean Up Procedures</b>	Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water
<b>Disposal</b>	Dispose of material in accordance with all State and Federal Guidelines and Regulations

**SECTION – 7 HANDLING AND STORAGE**

<b>Handling</b>	Keep away from incompatible materials, sparks, open flames or hot surfaces, Use appropriate safety equipment, and adequate ventilation, Avoid eye and skin contact, Avoid inhalation of dust, Avoid inhalation of mist or vapors, May be harmful or fatal if swallowed and enters airways, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after handling, Avoid release to the environment
<b>Storage</b>	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Keep only in original container, Store away from incompatible materials, Store away from heat, sparks, open flames or hot surfaces, Avoid storing in direct sunlight, Store below $49^{\circ}\text{C}$ ( $120^{\circ}\text{F}$ ) and in accordance with Class II Combustible Liquids (GHS Category 3)
<b>Incompatible Materials</b>	Incompatible with, strong oxidizing agents, strong bases, strong acids

**SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE LIMITS**

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Odorless Mineral Spirits	None	Established			

**PERSONAL PROTECTIVE EQUIPMENT**

Chemical Safety Glasses,  
Goggles or Face Shield



Impervious  
Chemical Gloves



Dust Mask



Eye Wash  
(Recommended)

**Ventilation**

General Ventilation  
 If exposure limits listed above are exceeded, or irritation is experienced, use a MSHA / NIOSH approved dust mask or respirator

**HMIS HAZARD RATINGS**

<b>Health</b>	1
<b>Flammability</b>	2
<b>Reactivity</b>	0
<b>Personal Protection</b>	E

**SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Flash Point</b>	39.4 - 60°C (101 - 140°F) - TAG Closed Cup	<b>Specific Gravity / Density</b>	1.283
<b>Flammable Limits</b>	Lower 0.7%, Upper 5.0%	<b>pH (± 0.3)</b>	NA
<b>Auto-Ignition Temp.</b>	230°C (446°F)	<b>Viscosity</b>	4.1 cSt @ 20 °C
<b>Physical State</b>	Liquid	<b>Freeze Point</b>	-68°C (< -90°F)
<b>Appearance</b>	Light Grey	<b>Boiling Point</b>	239 - 276°C (464 - 528°F)
<b>Odor</b>	Light Solvent	<b>Vapor Density (air=1)</b>	ND
<b>Odor Threshold</b>	ND	<b>Vapor Pressure (mmHg)</b>	0.02 mm Hg @ 20°C
<b>Solubility</b>	< 1%	<b>Evaporation Rate (nBuAc=1)</b>	ND
<b>Volatiles</b>	< 80%	<b>Partition Coefficient</b>	ND
<b>VOC</b>	< 80%	<b>Molecular Weight (g/mol)</b>	~ 157.52
<b>LVP-VOC</b>	0.0%	<b>Decomposition Temperature</b>	ND

**SECTION – 10 STABILITY AND REACTIVITY**

<b>Reactivity (Specific Test Data)</b>	None available
<b>Chemical Stability</b>	Stable at normal ambient temperature and pressure
<b>Hazardous Polymerization</b>	Will not occur
<b>Conditions To Avoid</b>	Incompatible materials
<b>Incompatible Materials</b>	Incompatible with, strong oxidizing agents, strong bases, strong acids
<b>Thermal Decomposition</b>	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, silicon oxides, and other toxic fumes

**SECTION – 11 TOXICOLOGICAL INFORMATION****ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes "Vapor, Fumes or Dust")

**ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

<b>Eyes</b>	Can cause serious eye irritation, discomfort, redness, tearing
<b>Skin</b>	Can cause skin irritation, itching, redness, drying or cracking
<b>Inhalation</b>	Mist or vapor may cause mild irritation, to respiratory tract
<b>Ingestion</b>	May be harmful if swallowed, May cause irritation, of the mouth, throat, and esophagus, May cause lung damage if swallowed and enters airways

**CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE**

<b>Eyes</b>	Causes serious eye irritation, redness, tearing, burning, or pain
<b>Skin</b>	Causes skin irritation, itching, redness, burning, drying or cracking
<b>Inhalation</b>	Mist or vapor may cause irritation, to mucus membranes or respiratory tract, Symptoms may include, headache, dizziness or drowsiness
<b>Ingestion</b>	May be harmful if swallowed, May cause irritation, of the mouth, throat, esophagus, and stomach, May be fatal if swallowed and enters airways, Symptoms may include, dizziness, drowsiness, nausea, vomiting, abdominal pain, central nervous system depression

**Acute Tox Calculated**      **Oral:**      > 5,000 mg/kg      **Dermal:**      > 5,000 mg/kg      **Inhaled:**      > 5.0 mg/L

**Acute Tox Category**      Not applicable (Oral >5000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/L) Dust or Mist

**Additional Info**

<b>Target Organs</b>	Respiratory Tract, Eyes (Lens or cornea), Skin
<b>Medical Conditions</b>	Preexisting, eye, skin, central nervous system, respiratory, disorders may be aggravated by exposure to this product
<b>Notes to Physician</b>	Probable mucosal damage may contraindicate the use of gastric lavage, Contains petroleum distillates, vomiting may cause aspiration pneumonia

**CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

<b><u>CHEMICAL NAME</u></b>	<b><u>NTP</u></b>	<b><u>ACGIH</u></b>	<b><u>IARC</u></b>	<b><u>GHS Category</u></b>
None Listed	NA	NA	NA	NA

**MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:**

<b><u>CHEMICAL NAME</u></b>	<b><u>Germ Cell Mutagenicity</u></b>	<b><u>Toxic to Reproduction</u></b>
None Listed	NA	NA

**COMPONENTS ACUTE TOXICITY**

<b><u>CHEMICAL NAME</u></b>	<b><u>Type</u></b>	<b><u>Form</u></b>	<b><u>Subject</u></b>	<b><u>Result Value</u></b>	<b><u>Exposure Time</u></b>	<b><u>GHS Category</u></b>
Odorless Mineral Spirits	LD50	Oral	Rat	> 5,000 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	> 20 mg/L	4 Hours (Vapor)	(>20 mg/L)
	LD50	Dermal	Rabbit	> 5,000 mg/kg		(>2000 mg/kg)

**SECTION – 12 ECOLOGICAL INFORMATION**

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Odorless Mineral Spirits	LD50	Rainbow Trout (Oncorhynchus mykiss)		> 1,000 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea (Daphnia magna)		> 1,000 mg/L	48 Hours	4 (>100 mg/L)

<b>Presistence And Degradability</b>	This product is inherently biodegradable according to the OECD definition
<b>Bioaccumulative Potential</b>	There is no evidence to suggest bioaccumulation will occur
<b>Mobility In Soil</b>	This material is a partially mobile liquid
<b>Other Adverse Effects</b>	May be harmful to aquatic life

**SECTION – 13 DISPOSAL CONSIDERATIONS**

**DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER**  
**Dispose of any waste in accordance with all State and Federal Guidelines and Regulations**

**ENVIRONMENTAL FATE**

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

**SECTION – 14 TRANSPORT INFORMATION****DOT CLASSIFICATION**

<u>UN Number</u>	<u>Proper Shipping Name</u>	<u>n.o.s. ( Chemicals ) or "Limits"</u>					
Ltd Qty	"Limited Quantity"	n.o.s.(Odorless Mineral Spirits)					
<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lbs)</u>	<u>Response</u>	<u>Marine Pollutant</u>	<u>Hazard Label</u>	<u>Secondary</u>
COMB LQD	PG III	None	None	128	No		
<b>Additional Info:</b>	Classified as a combustible liquid as per 49 CFR 173.120(b)(2) for DOT (Flash Point: >100°F and <200°F), For flammable liquids in Packing Group III and combustible liquids, inner packagings not over 5.0 L (1.3 gallons) net capacity each, packed in a strong outer packaging.						

**IATA CLASSIFICATION**

<u>UN Number</u>	<u>UN Proper Shipping Name</u>	<u>n.o.s. ( Chemicals ) or "Limits"</u>					
UN 1993	Flammable Liquid, n.o.s.	(Odorless Mineral Spirits)					
<u>Class</u>	<u>Packing Group</u>	<u>Enviro Hazard</u>	<u>ERG</u>	<u>Special Provisions</u>	<u>Labels Required</u>	<u>Subsidiary Risk</u>	<u>Hazard Label</u>
3	III	No	3L		Flammable Liquid	-	

**Special precautions / marking:**

**SECTION – 15 REGULATORY INFORMATION****TSCA**

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Odorless Mineral Spirits	Yes			

**REPORTABLE QUANTITIES**

CHEMICAL NAME	Extremely Hazardous	Reportable Quantity	Emission Reporting			
	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
None Listed						

**SARA**

CHEMICAL NAME	Section 311			Section 311 / 312 Hazards		
	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
Odorless Mineral Spirits	Yes			Yes		

**RIGHT TO KNOW**

CHEMICAL NAME	STATE												
	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Odorless Mineral Spirits						Yes		Yes					

**CALIFORNIA**

WARNING! This product contains chemicals known to the state of California to cause:						
CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental	
None Listed						

**CLEAN AIR WATER ACTS**

CHEMICAL NAME	CAS #	Clean Air Acts			Clean Water Acts		
		HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Odorless Mineral Spirits	68551-17-7				Yes (Oil)		

**INTERNATIONAL REGULATIONS** – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
None Listed						

**WHMIS Classification**

CHEMICAL NAME	DSL	Class	Description
None Listed			

**SECTION – 16 OTHER INFORMATION****SDS LEGEND DESCRIPTION**

~	Approximately	*	Additional Information
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(E1 = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours)
KD	Kidney Damage (nephropathy)	UEL	Upper Explosive Limit

**Jet Stream Aviation Products**

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