



SAFETY DATA SHEET

Ultra-Magnum

Revision Date 10/21/2015

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Ultra-Magnum **ITEM** UM
PRODUCT USE Biodegradable, Exterior Wash Concentrate
COMPANY NAME Jet Stream Aviation Products **Office** (972) 542-2400
 1971 University Business Dr. Suite 102 **Fax** (972) 542-0238
 McKinney Tx 75071 **Web** www.jetstreamproducts.com
EMERGENCY TELEPHONE NUMBER **INFOTRAC (800) 535-5053**

SECTION – 2 HAZARDS INFORMATION

Health Hazards EYES-Category 1; SKIN-Category 2; STOT SINGLE EXPOSURE-Category 3



Irritant (skin)
Respiratory Tract Irritant



Eye Damage

DANGER Causes serious eye damage, Causes skin irritation, May cause respiratory irritation
May be harmful if swallowed, Do not get in eyes, on skin, or clothing, and avoid inhalation of mist, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release into the environment

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

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
2-butoxyethanol	Ethylene Glycol Monobutyl Ether	111-76-2		1 - 5%
Sodium Metasilicate Pentahydrate	Disodium Trioxosilicate	10213-79-3		1 - 5%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 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 obtain immediate medical attention, preferably from an ophthalmologist

SKIN CONTACT Wash contaminated skin with plenty of water, Remove any contaminated clothing and wash before reuse, If irritation occurs or persists obtain medical attention

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard Not applicable

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Can cause serious eye irritation, redness, tearing, pain, or possible eye damage
Skin Can cause skin irritation, redness, drying or cracking
Inhalation Mist may cause mild irritation, to nose, throat, mucus membranes or respiratory tract
Ingestion May be harmful if swallowed, Can cause irritation, burning in the mouth, throat, esophagus, and may affect target organs

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, redness, tearing, severe pain, or possible corneal injury
Skin Causes skin irritation, defatting of the skin which may lead to dermatitis
Inhalation Mist may cause irritation, to nose, throat, mucus membranes or respiratory tract
Ingestion May be harmful if swallowed, Can cause irritation, of the mouth, throat, esophagus, stomach, and may affect target organs

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire
Hazardous Decomposition Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, and other toxic fumes
Reactive With Incompatible with, strong oxidizing agents, strong acids
Explosion Hazards Not applicable
Static Discharge Not applicable
Mechanical Impact Not applicable
Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel of spill
Personal Precautions	Ventilate area, Avoid slipping on spilled product
Protective Equipment	Safety Glasses, Chemical Gloves and Rubber Boots
Containment	Use rags, towels, absorbent socks or pads to prevent spill from spreading
Clean Up Procedures	Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water Large Spills: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Vacuum or sweep up material and place in a disposal container
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	Use appropriate safety equipment, Avoid eye and skin contact, Avoid inhalation of mist, May cause respiratory irritation, May be harmful if swallowed, Wash thoroughly after handling, Avoid release to the environment
Storage	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, 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
Sodium Metasilicate Pentahydrate	None Established				
2-butoxyethanol	20 ppm		50 ppm (240 mg/m ³)		SA

PERSONAL PROTECTIVE EQUIPMENT

Chemical Safety Glasses, Goggles or Face Shield



Impervious Chemical Gloves



Eye Wash (Recommended)

**Ventilation**

General Ventilation

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

HMIS HAZARD RATINGS

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	1.02
Flammable Limits	NA	pH (± 0.3)	12.7
Auto-Ignition Temp.	NA	Viscosity	ND
Physical State	Liquid	Freeze Point	ND
Appearance	Clear Yellow	Boiling Point	ND
Odor	Citrus	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mm Hg)	ND
Solubility	100%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 92%	Partition Coefficient	ND
VOC	< 1.8%	Molecular Weight (g/mol)	~52.25
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None available
Chemical Stability	Stable when stored below 49°C (120°F)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong acids
Thermal Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, and other toxic fumes

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

Eyes (Yes), Skin (Yes), Inhalation (Yes "Mist"), Ingestion (Yes)

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Acute Tox Calculated **Oral:** 7,160 mg/kg **Dermal:** 31,328 mg/kg **Inhaled:** 144.1 mg/L

Acute Tox Category No Data or NA (Oral >5000 mg/kg), No Data or NA (Dermal > 5000 mg/kg), No Data or NA (Inhaled >12.5 mg/L) Dust or Mist

Additional Info

Target Organs Blood, Kidneys, Liver, Respiratory Tract, Eyes (Lens or cornea), Skin
Medical Conditions Preexisting, eye, skin, liver, kidney, blood, respiratory, disorders may be aggravated by exposure to this product
Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

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

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

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

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

COMPONENTS ACUTE TOXICITY

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Sodium Metasilicate Pentahydrate	LD50	Oral	Rat	847 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50		Rat	Dermal	> 5000 mg/kg	(>2000 mg/kg)
2-butoxyethanol	LD50	Oral	Rat	530 mg/kg		4 (>300, ≤2000 mg/kg)
	LC50	Inhaled	Rat	2.17 mg/L	4 Hours (Mist)	4 (>1.0, ≤5 mg/L)
	LD50	Dermal	Guinea Pig	1650 mg/kg		4 (>1000, ≤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>
Sodium Metasilicate Pentahydrate	LC50	Zebrafish	(Brachydanio rerio)	210 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea	(Daphnia magna)	1700 mg/L	48 Hours	4 (>100 mg/L)
2-butoxyethanol	EC50	Water Flea	(Daphnia magna)	1,815 mg/L	24 Hours	4 (>100 mg/L)
	LC50	Bluegill	(Lepomis macrochirus)	220 mg/L	96 Hours	4 (>100 mg/L)

Presistence And Degradability This product is inherently biodegradable according to the OECD definition

Bioaccumulative Potential No data available

Mobility In Soil No data available

Other Adverse Effects May be harmful to aquatic life

SECTION – 13 DISPOSAL CONSIDERATIONS**DO NOT DUMP INTO ANY STORM 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**

UN Number	Proper Shipping Name <u>n.o.s. (Chemicals) or "Limits"</u>						
Not Regulated	Non Hazardous – Compounds Cleaning Liquid						
Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response	Marine Pollutant	Hazard Label	Secondary
None	None	None	None	154	No		

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		
Sodium Metasilicate Pentahydrate	Yes					
2-butoxyethanol	Yes	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
Glycol Ethers				Yes		

SARA						
CHEMICAL NAME	Section 311		Section 311 / 312 Hazards			
	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
Sodium Metasilicate Pentahydrate	Yes	Yes				
2-butoxyethanol	Yes	Yes	Yes	Yes		

RIGHT TO KNOW													
CHEMICAL NAME	STATE												
	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Sodium Metasilicate Pentahydrate						Yes	Yes						
2-butoxyethanol						Yes	Yes				Yes		

CALIFORNIA					
CHEMICAL NAME	CAS #	WARNING! This product contains chemicals known to the state of California to cause:			
		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
None Listed							

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				
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
2-butoxyethanol	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				

WHMIS Classification					
CHEMICAL NAME	DSL	Class	Description		
2-butoxyethanol	Yes	D-2B	Materials Causing Other Toxic Effects; Toxic Material		

SECTION – 16 OTHER INFORMATION

SDS	LEGEND DESCRIPTION		
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	NFPA	National Fire Protection Association
EPA	Environmental Protection Agency	NIOSH	National Institute for Occupational Safety and Health
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NE	Not Established
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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