

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1.	Identification			
Product	form	: Mixture		
Product	name	: Aerospray Nozzle Cleaning Solution		
Product	code	SS-029, SS-029C diluted with methanol, or SS-029C-EU diluted with methanol		
1.2.	Relevant identified uses of the substance or	mixture and uses advised against		
Use of t	he substance/mixture	: Cleaning reagent for Aerospray stainer nozzles		
Use of t	he substance/mixture	: Laboratory chemical		
1.3.	Details of the supplier of the safety data she	et		
ELITechG 370 West Logan, U ⁻¹ T +1 (435 qara_ebs	roup Inc. : 1700 South F 84321 - USA) 752-6011 - F +1 (435) 752-4127 @elitechgroup.com - www.elitechgroup.com			
1.4.	Emergency telephone number			
Emerge	ncy number	 Contact your distributor or poison control center in your country. InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls outside the USA, phone: +1 352-323-3500 (call collect) Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone number above). 		
SECTIO	N 2: Hazard(s) identification			

2.1. Classification of the substance or mixture

GHS US classification

Flam. Liq. 1	H224 -	Extremely flammable liquid and vapor
Acute Tox. 3 (Dermal)	H311 -	Toxic in contact with skin
Skin Corr. 1	H314 -	Causes severe skin burns and eye damage
Acute Tox. 3 (Inhalation:vapour)	H331 -	Toxic if inhaled
STOT SE 1	H370 -	Causes damage to organs (Inhalation, oral)

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Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)

		•	•	•	•	
		GHS02	GHS05	GHS06	GHS08	
Signal word (GHS US)	:	Danger				
Hazard statements (GHS US)	:	H224 - Extremely H311+H331 - Toxi H314 - Causes sev H370 - Causes dar	flammable liquid ic in contact with vere skin burns ar mage to organs (I	l and vapor skin or if inhaled nd eye damage Inhalation, oral)		
Precautionary statements (GHS US)	:	P210 - Keep away P233 - Keep conta P240 - Ground/Bc P243 - Take preca P260 - Do not bre P264 - Wash hanc P270 - Do not eat P271 - Use only or P280 - Wear prote P301+P330+P331 P302+P352 - If on P303+P361+P353 water/shower. P304+P340 - If inh	from heat, hot s ainer tightly close ond container and utionary measur- athe mist, spray, ds, forearms and , drink or smoke utdoors or in a w ective gloves, pro - If swallowed: ri skin: Wash with - If on skin (or ha maled: Remove pe	urfaces, sparks, op d. d receiving equipm es against static di vapors. face thoroughly af when using this pr ell-ventilated area tective clothing, e inse mouth. Do NC plenty of water ar air): Take off imme	pen flames and other ig nent. ischarge. iter handling roduct. h. rye protection, face pro DT induce vomiting. nd soap. ediately all contaminate	nition sources. No smoking. tection. d clothing. Rinse skin with or breathing.

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	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
	P312 - Call a doctor, a POISON CENTER if you feel unwell.
	P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
	P370+P378 - In case of fire: Use alcohol resistant foam, ABC-powder, carbon dioxide (CO2), D-powder
	to extinguish.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with
	local, regional, national and/or international regulation.
ailable	

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
methanol	(CAS-No.) 67-56-1	40 – 55	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370
oxalic acid, dihydrate	(CAS-No.) 6153-56-6	1-5	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314

Full text of H-phrases: see section 16

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SECTION 4: First aid measures	
4.1. Description of first aid mea	sures
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor/physician.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms	and effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediat	e medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures				
5.1.	Extinguishing media			
Suitable extinguishing media		: Foam. Dry powder. Carbon dioxide. Water spray. Sand.		
Unsuitable extinguishing media		: Do not use a heavy water stream.		
5.2.	5.2. Special hazards arising from the substance or mixture			
Fire hazard		: Flammable liquid and vapor.		

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Explos	ion hazard	: May form flammable/explosive vapor-air mixture.	
Reactivity		: Corrosive vapors.	
5.3.	Advice for firefighters		
Firefig	hting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Prote	tion during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTI	DN 6: Accidental release measure	5	
6.1.	Personal precautions, protective equip	ment and emergency procedures	
Gener	al measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.	
6.1.1.	For non-emergency personnel		
Emer	ency procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Prote	tive equipment	: Equip cleanup crew with proper protection.	
Emer	ency procedures	: Ventilate area.	
6.2.	Environmental precautions		
Prevent	entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.	
6.3.	Methods and material for containment	and cleaning up	
Metho	ods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	
Other	information	: Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
See Hea	ding 8. Exposure controls and personal pro	tection.	
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Additi	onal hazards when processed	: Handle empty containers with care because residual vapors are flammable.	
Preca	utions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing vapors, spray, mist, fume. Do not breathe vapors, spray, mist, fume. Avoid contact during pregnancy/while nursing.	
Hygie	ne measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.	
7.2.	Conditions for safe storage, including a	ny incompatibilities	
Techn	ical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use only non-sparking tools. Comply with applicable regulations.	
Storag	e conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed.	
Incom	patible products	: Strong bases. Strong acids.	
Incom	patible materials	: Sources of ignition. Direct sunlight. Heat sources.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methanol (67-56-1)				
ACGIH	ACGIH TWA (ppm)	200 ppm		
ACGIH ACGIH STEL (ppm)		250 ppm		
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea		
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³		
OSHA OSHA PEL (TWA) (ppm)		200 ppm		
oxalic acid, dihydrate (6153-56-6)				
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³		
ACGIH	ACGIH STEL (mg/m ³)	2 mg/m ³		
ACGIH	Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr		

8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

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Personal protective equipment		Avoid all unnecessary exposure.
Hand protection	:	Wear protective gloves. Suitable gloves should be tested to EN 374. The glove material has to be impermeable and resistant to the product/the substance/the preparation. As the product is a preparation of several substances, the resistance and penetration time/breakthrough time of the glove material cannot be calculated/observed in advance and, therefore, has to be checked prior to the application. The following are recommended: materials - natural latex or nitrile; thickness - 4 to 6 mils (0.1 mm - 0.15 mm); minimum breakthrough time - 60 minutes.
Eye protection	:	Chemical goggles or face shield.
Skin and body protection	:	Wear suitable protective clothing.
Respiratory protection	:	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Environmental exposure controls	:	Avoid release to the environment.
Other information		Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemic	al properties
Physical state	: Liquid
Color	: Colorless
Odor	: Alcohol odor
Odor threshold	: No data available
pH	: 1.9 (1.6 – 2.2)
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Critical temperature	: No data available
Flash point	: < 26.7 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: Water: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapors.

10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Aerospray Nozzle Cleaning Solution	
ATE US (dermal)	688.066 mg/kg body weight
ATE US (vapors)	6.881 mg/l/4h
methanol (67-56-1)	
LD50 oral rat	1187 – 2769 mg/kg body weight Animal: rat
LC50 Inhalation - Rat	128.2 mg/l air (BASF test, 4 h, Rat, Male/female, Experimental value, Inhalation (vapours))
ATE US (oral)	1187 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
oxalic acid, dihydrate (6153-56-6)	
LD50 oral rat	475 mg/kg body weight (Rat, Male, Experimental value, Anhydrous form, Oral)
LD50 dermal rabbit	20000 mg/kg body weight (Rabbit, Experimental value, Anhydrous form, Dermal)
ATE US (oral)	475 mg/kg body weight
ATE US (dermal)	20000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns.
	pH: 1.9 (1.6 – 2.2)
Serious eye damage/irritation	: Assumed to cause serious eye damage
	pH: 1.9 (1.6 – 2.2)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	: Causes damage to organs (Inhalation, oral).
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
ECTION 12: Ecological information	

12.1. Toxicity

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Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

methanol (67-56-1)	
LC50 fish 1	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	10000 mg/l (48 h; Daphnia magna; Lethal)

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NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'				
oxalic acid, dihydrate (6153-56-6)					
LC50 fish 1	160 mg/l (48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Anhydrous form)				
LC50 other aquatic organisms 1	5330 mg/l (96 h, Xenopus laevis, Fresh water, Experimental value, Anhydrous form)				
EC50 Daphnia 1	162.2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, Anhydrous form)				
12.2. Persistence and degradability					
Aerospray Nozzle Cleaning Solution					
Persistence and degradability	Not established.				
methanol (67-56-1)					
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.				
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O ₂ /g substance				
Chemical oxygen demand (COD)	1.42 g O _z /g substance				
ThOD	L5 g O ₂ /g substance				
oxalic acid, dihydrate (6153-56-6)					
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water. Readily biodegradable in water in anaerobic conditions.				
12.3. Bioaccumulative potential					
Aerospray Nozzle Cleaning Solution					
Bioaccumulative potential	Not established.				
methanol (67-56-1)					
BCF fish 1	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)				
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Experimental value)				
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).				
oxalic acid, dihydrate (6153-56-6)					
Partition coefficient n-octanol/water (Log Pow)	-1.7 (Anhydrous form, Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C)				
Bioaccumulative potential	Not bioaccumulative.				
12.4. Mobility in soli					
methanol (67-56-1)					
Surface tension	No data available in the literature				
Partition coefficient n-octanol/water (Log Koc)	-0.89 – -0.21 (log Koc, Calculated value)				
Ecology - soil	Highly mobile in soil.				
oxalic acid, dihydrate (6153-56-6)					
Surface tension	/0.1 N/m (25 °C, 0.015 mol/l)				
12 5 Other adverse offects	No (test)data on mobility of the substance available.				
Other information	: Avoid release to the environment.				
SECTION 13: Disposal considerations					
13.1. Waste treatment methods					
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.				
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.				
Additional information	: Handle empty containers with care because residual vapors are flammable.				
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.				
SECTION 14: Transport information					
Department of Transportation (DOT)					
in accordance with DOT					
Transport document description	· UN1220 Mothanol 2 /6 1) II				
	: UN123U				
Proper Shipping Name (DOT)	: Methanol				
Class (DOT)	: 3 Class 3 Flammable and combustible liquid 49 CFR 173.120				

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Hazard labels (DOT)	: 3 - Flammable liquid 6.1 - Poison
	POISON
Packing group (DOT)	: II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group, I - Proper shipping name appropriate for international and domestic transportation
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 131
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1230
Proper Shipping Name (IMDG)	: METHANOL
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 1230
Proper Shipping Name (IATA)	: Methanol
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

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SECTION 15: Regulatory infe 15.1. US Federal regulations	ormation						
methanol (67-56-1)							
Listed on the United States TSCA (To	 oxic Substances Control Act) inventory	,					
Subject to reporting requirements o	f United States SARA Section 313						
CERCLA RQ	5000 lb						
SARA Section 313 - Emission Report	orting 1%						
oxalic acid, dihydrate (6153-56	-6)						
Not listed on the United States TSCA	(Toxic Substances Control Act) invent	tory					
15.2. International regulations							
CANADA							
methanol (67-56-1)							
Listed on the Canadian DSL (Domest	ic Substances List)						
EU-Regulations							
No additional information available	ē						
National regulations							
methanol (67-56-1)	. (
Listed on EPA Hazardous Air Pollutar	nt (HAPS)						
15.3. US State regulations							
metnanoi (67-56-1)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - F Reproductive Toxi	Proposition 65 - city - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)		
No	Yes	No		No			
methanol (67-56-1)		•					
U.S Massachusetts - Right To Know U.S New Jersey - Right to Know Ha	v List Jzardous Substance List						
SECTION 16: Other informa	tion						
Data sources	 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. 						
Abbreviations and acronyms	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. European Agreement concerning the International Carriage of Dangerous Goods by Road. Acute Toxicity Estimate. Biological limit value. Chemical Abstract Service number. Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. Derived Minimal Effect level. Derived-No Effect Level. Median effective concentration. European Community number. European Standard. Internationa Air Transport Association. International Maritime Dangerous Goods. Median lethal concentration. Median lethal dose. Lowest Observed Adverse Effect Level. No-Observed Adverse Effect Concentration No-Observed Adverse Effect Level. No-Observed Effect Concentration. Occupational Exposure Limit. Persistent Bioaccumulative Toxic. Predicted No-Effect Concentration. Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. Regulations concerning the International Carriage of Dangerous Goods by Rail. Safety Data Sheet. Very Persistent and Very Bioaccumulative. Water Hazard Class.						
Other information	: None.						
Full text of H-phrases:							
H224	4 Extremely flammable liquid and vapor						
H225			Highly flammab	ble liquid and vapor			

H225Highly flammable liquid and vaporH302Harmful if swallowedH311Toxic in contact with skinH314Causes severe skin burns and eye damageH331Toxic if inhaledH370Causes damage to organs

SDS US Custom - EBS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Reason For Change: updated to latest GHS format to meet compliance.