



MATERIAL SAFETY DATA SHEET

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MSDS-E-CCS-601

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards | MSDS Revision: 1.0 | MSDS Revision Date: 09/15/2007

1. PRODUCT IDENTIFICATION			CHEMICAL RESPONSE CARD: 01			
1.1	Product Name:	CCS WorkStation Cleaner, 100 Wipes, Part No. CCS-601	RESPONSE TEAM PPE:			
1.2	Chemical Name:	See ingredients listed in section 3				
1.3	Synonyms:	CCS-601	WHMIS:			
1.4	Trade Names:	CCS WorkStation Wipes, 100 wipes, large pop-up				
1.5	Product Use:	Electronics Cleaner	HEALTH:			1
1.6	Manufacturer's Name:	CAIG Laboratories, Inc.	FLAMMABILITY:			0
1.7	Manufacturer's Address:	12200 Thatcher Ct., Poway, CA 92064	REACTIVITY:			0
1.8	Business Phone:	+1 (858) 486-8388 / +1 (858) 486-8398 fax	PERSONAL PROTECTION:			A
1.9	Emergency Phone:	CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300				
1.10	Other Product Names:	NA				

2. HAZARD IDENTIFICATION

2.1	Hazard Identification: This product is classified as a hazardous substance but not as a dangerous good according to the classification criteria of NOHSC and ADG Code (Australia). Read and follow label directions and warnings carefully.						
2.2	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestion:	NO
2.3	Effects of Exposure: EYES: Non-irritation when used as directed. Can cause irritation, tearing, and blurred vision. SKIN: Non-irritation when used as directed. Can cause minor irritation. INGESTION: Not probable. Small amounts if swallowed may cause gastrointestinal irritation. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness, and other central nervous system effects.						
2.4	Symptoms of Overexposure: EYES: Non-irritation when used as directed. Can cause irritation, tearing, and blurred vision. SKIN: Non-irritation when used as directed. Can cause minor irritation INGESTION: Not probable. Small amounts if swallowed may cause gastrointestinal irritation. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness, and other central nervous system effects.						
2.5	Acute Health Effects: EYES: Mild to moderate irritation to eyes. SKIN: Mild irritation and dermatitis (rash). INGESTION: Not probable. Small amounts if swallowed may cause gastrointestinal irritation. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness, and other central nervous system effects.						
2.6	Chronic Health Effects: None reported by the manufacturer.						
2.7	Target Organs: None reported by the manufacturer.						

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used
NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.



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3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)					
					ACGIH - ppm		OSHA - ppm			OTHER
					TLV	STEL	PEL	STEL	IDLH	
CLOTH (POLYESTER NONWOVEN)	NA	NA	NA	≤ 50.0	NE	NE	NE	NE	NE	
WATER	7732-18-5	ZC0110000	231-791-2	≤ 30.0	NA	NA	NA	NA	NA	
ETHYL ALCOHOL	64-17-5	KQ6300000	200-578-6	≤ 30.0	1000	1900	1000	1900	3300	
IODOPROPYNYL BUTYLCARBAMATE	55406-53-60	NA	259-627-5	≤ 1.0	NE	NE	NE	NE	NE	
BENZALKONIUM CHLORIDE	8001-54-5	BO3150000	263-080-8	≤ 1.0	NE	NE	NE	NE	NE	
CHLORHEXIDINE GLUCONATE	18472-51-0	DU1950000	242-354-0	≤ 1.0	NE	NE	NE	NE	NE	
FRAGRANCE	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ALOE BARBADENSIS	85507-69-3	NA	287-390-8	NA	NA	NA	NA	NA	NA	

4. FIRST AID

4.1	<p>First Aid:</p> <p>EYES: As a precaution remove contact lenses if worn and flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.</p> <p>SKIN: Remove contaminated clothing. Wash the skin with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p>INGESTION: Do not induce vomiting! Call a physician or poison control center for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>INHALATION: Remove victim to fresh air at once. If breathing is difficult, provide supplemental oxygen. If breathing has stopped, provide artificial respiration. Seek immediate medical attention. Provide supportive treatment, keeping victim warm and quiet.</p>										
4.2	<p>Medical Conditions Aggravated by Exposure: None reported by the manufacturer.</p> <table border="1" style="float: right;"> <tr> <td style="background-color: blue; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: red; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: yellow; color: black;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: black; color: white;">PROTECTIVE EQUIPMENT</td> <td style="text-align: center;">A</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PROTECTIVE EQUIPMENT	A	EYES	SKIN
HEALTH	1										
FLAMMABILITY	0										
REACTIVITY	0										
PROTECTIVE EQUIPMENT	A										
EYES	SKIN										

5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: > 30 °C
5.2	Autoignition Temperature: ND
5.3	Flammability Limits: Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA
5.4	Fire & Explosion Hazards: Use media appropriate for surrounding materials.
5.5	Extinguishing Methods: Use media appropriate for surrounding materials.
5.6	Firefighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Avoid breathing vapor or fumes.



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6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: Ventilate if in enclosed area. Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Wipe and rinse with water. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact.
7.2	Storage & Handling: Use and store in a cool, dry, well-ventilated area. Do not store near or with any incompatible materials listed in section 10. Open containers may change concentrations, keep tightly closed when not in use.
7.3	Special Precautions: Direct inhalation of vapor above recommended exposure limit may be harmful. Keep out of reach of children.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Local exhaust may be necessary to maintain exposures to within applicable limits. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).
8.2	Respiratory Protection: None required, when used with adequate ventilation. Local exhaust ventilation or other engineering controls may be required to control airborne levels below the recommended exposure limits. A respiratory protection program that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use. Avoid breathing vapors.
8.3	Eye Protection: If splashing is anticipated, splash goggles and a face-shield are recommended. Do not wear contact lenses.
8.4	Hand Protection: Where contact is likely, gloves are recommended. Do not wear rings, watches, or jewelry that could entrap the material against the skin.
8.5	Body Protection: None required under normal use. Avoid prolonged contact with skin.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.97
9.2	Boiling Point:	78.3 °C-100 °C
9.3	Melting Point:	ND
9.4	Evaporation Rate:	(H20=1) >1
9.5	Vapor Pressure:	NA
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Transparent liquid
9.8	Odor Threshold:	Mild alcohol
9.9	Solubility:	Soluble
9.10	Ph	ND
9.11	Viscosity:	NA
9.12	Other Information:	NA



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10. STABILITY & REACTIVITY

10.1	Stability: Stable
10.2	Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.
10.3	Hazardous Polymerization: Will not occur.
10.4	Conditions to Avoid: Use or storage near open flames, sparks, high heat (>120 °F) or other heat sources, and proximity to incompatible substances. Evaporation may change concentrations.
10.5	Incompatible Substances: Oxidizing agents

11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. This data has not been presented in this document. Ethyl Alcohol (CAS# 64-17-5) IARC: Group 3 carcinogen
11.2	Acute Toxicity: See section 2.5
11.3	Chronic Toxicity: See section 2.6
11.4	Suspected Carcinogen: This product is not a suspected carcinogen in humans.
11.5	Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans.
	Mutagenicity: This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity: This product is not reported to produce teratogenic effects in humans.
	Reproductive Toxicity: This product is not reported to produce reproductive effects in humans.
11.6	Irritancy of Product: See Section 2.3
11.7	Biological Exposure Indices: NE
11.8	Physician Recommendations: Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability: This product will slowly volatilize from soil. Components of this product will slowly decompose into organic compounds.
12.2	Effects on Plants & Animals: There is no specific data available for this product.
12.3	Effects on Aquatic Life: This material should be kept out of sewage and drainage systems and all bodies of water. Releases of large volumes of this product are expected to be harmful or fatal to overexposed aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal: Dispose of in accordance with federal, state or local regulations.
13.2	Special Considerations: Dispose of in accordance with federal, state or local regulations.



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14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND): NOT REGULATED	
14.2	IATA (AIR): NOT REGULATED	
14.3	IMDG (OCN): NOT REGULATED	
14.4	TDGR (Canadian GND): NOT REGULATED	
14.5	ADR/RID (EU): NOT REGULATED	
14.6	MEXICO (SCT): NOT REGULATED	

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: This product contains substances that are subject to SARA reporting requirements: Ethanol (CAS# 64-17-5); Acute, chronic, flammable.	
15.2	SARA Threshold Planning Quantity: None of the chemicals in this product have a TPQ.	
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.	
15.4	CERCLA Reportable Quantity (RQ): Ethyl Alcohol: 5000 pounds final RQ; 2270 kg final RQ	
15.5	Other Federal Requirements: <u>Clean Air Act:</u> None of the chemicals in this product are listed as Hazardous Substances under the CAA. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters. <u>Clean Water Act:</u> None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. <u>OSHA:</u> None of the chemicals in this product are considered highly hazardous by OSHA.	
15.6	Other Canadian Regulations This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.	
15.7	State Regulatory Information: Ethyl Alcohol (CAS# 64-17-5): can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts. <u>California Prop 65</u> This product contains Ethyl Alcohol, a chemical known to the state of California to cause birth defects or other reproductive harm. WGK (Water Danger/Protection) Ethanol (CAS# 64-17-5): 0	
15.8	67/548/EEC (European Union) Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC. (Xi) Irritant R: 36 Irritating to eyes. S: 2 Keep out of reach of children S: 3/7 Keep container closed and dry in a well ventilated space S: 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	



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16. OTHER INFORMATION

16.1	Other Information: NA
16.2	Terms & Definitions: See last page of this MSDS.
16.3	Disclaimer: This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.
16.4	Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/ 
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 +1 (310) 370-3600 phone +1 (310) 370-5700 fax http://www.shipmate.com/ 



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
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EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

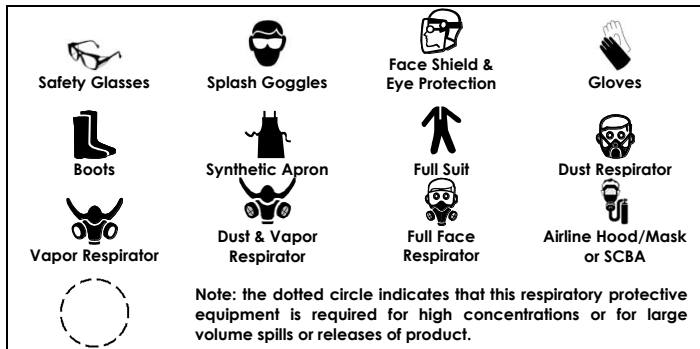
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for special handling directions.



OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

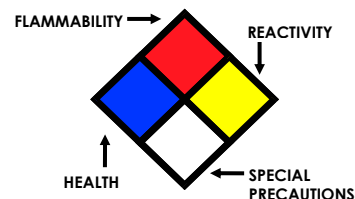
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₀ or TC, TC₀, LC₁₀, & LC₀	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	Median threshold limit
log K_{ow} or log K_{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)

EC INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful