

Page 1 of 6 **BTI-025**

1.1	Product Name:		. PRODU			י יטו	-141	11 10	7110	<i>7</i> 1 4				
1.1	Floudet Name.		E BROWN	N [™] M38										
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:		<u>151, 750152, 7</u>	50158										
1.4	Trade Names:	Antique Brow												
1.5	Product Use:		d to achieve a g		olate brow	n color	on bra	ass, bro	onze, c	opper				
1.6	Distributor's Name:		aboratories LLC											
1.7	Distributor's Address:	7900 Fuller R	Road, Eden Pra	irie, MN 55344	USA									
1.8	Emergency Phone:	ChemTrec	+1 (800) 424-	-9300 / +1 (7	03) 527-3	3887 o	r Pois	son C	ontro	I Cen	ter +1	(855)	281-1	742
1.9	Business Phone / Fax:	+1 (952) 937	7-7900 / +1 (952	2) 937-7979	•									
			2 F	HAZARDS	SIDEN	TIFI	ΩΤ	ION						
2.1	Hazard Identification:	This product							is goo	ds acc	ordino	to the	e classi	fication criteria o
		[NOHSC: 108 DANGER! I INHALED.	88 (2004)] and . MAY BE COR I	ADG Code (Au Rosive to N USE DAMAG	ustralia). METALS. E TO O	CAUS RGANS	SES SI	EVERE ROUGH	SKIN I PRO	I BUR	NS AI GED (ND EY	E DAN	IAGE. TOXIC I ED EXPOSURE
2.2	Label Elements:	Hazard State	ements (H): H2	90 - May be	corrosive	to meta	als. H	314 –	Cause	s seve	ere ski	n burr	s and	
			. H331 – Toxi											_
		repeated exp						·	-					
			<u>ry Statements</u> (61 – Avoid brea											(T.S.)
			id warm water t											
			80 - Wear											
			P331 – IF SW											
			l (or hair): Tal											
			363 – Wash c											
			esh air and ke											X
			cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P311 – Call a POISON CENTER/doctor. P314 – Get medical advice/attention if you feel											
		unwell. P321 – Specific treatment see this container label or section 4 of this SDS. P390 – Absorb												A CONTRACTOR OF THE PARTY OF TH
				eatment see th	nis contair	ner labe	el or se	ection 4	4 of th	is SDS	S. P39	90 – A	bsorb	
		spillage to p	revent material	eatment see th I-damage. P4	nis contair 03+P233	ner labe - Store	elorse in a v	ection 4	4 of th	is SDS d place	6. P39 e. Kee	90 – A ep con	bsorb tainer	
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		4. FIRST AID MEASURES – cont'd	
4.2	Effects of Exposure:	Eyes: Severe or permanent eye damage.	
		Skin: Burns upon direct contact. Ingestion: Severe burns of mouth, throat, stomach.	
		Inhalation: Severe burns of mouth, throat, stomach.	
4.3	Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes	
	., , , , ,	Skin: Redness, burning, irrhation, and swoning around cycs Skin: Redness, burning, itching, rash, blistering of skin.	
		Ingestion: Nausea, vomiting, severe abdominal pain.	
		Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing.	
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respirate tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin.	ory
4.5	Chronic Health Effects:	May damage the nervous system, kidney and/or liver.	
4.6	Target Organs:	Eyes, skin, nervous system, kidneys, liver, respiratory system, spleen, blood forming organs, bones.	
4.7	Medical Conditions	Pre-existing dermatitis, other skin conditions, and disorders of the target organs HEALTH	3
	Aggravated by Exposure:	(eyes, skin, respiratory system, liver, blood-forming organs) or impaired kidney	0
		Tunction may be more susceptible to the effects of this substance.	2
			<u>H</u>
		EYES SKIN LUNGS	
4.8	Notes to Physician:	This product contains <u>Selenious Acid</u> and is potentially fatal if ingested even in small amounts. 24-hour admission should be considered in asymptomatic or minimally symptomatic patients as delayed toxic effects including pulmonary eder and multi-organ failure may occur. 24/7 medical toxicology consultation is available at +1 (855) 281-1742.	
		E FIDERIOLITINO MEACUREO	
	T	5. FIREFIGHTING MEASURES	
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which can form explosive mixtures with air. May intensity fire; oxidizer.	
5.2	Extinguishing Methods: Firefighting Procedures:	Use fire-extinguishing media appropriate for surrounding materials. As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH	
		surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.	
		6. ACCIDENTAL RELEASE MEASURES	
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protecti Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e. apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustib inert material such as vermiculite or sand to soak up the product and place into a container for later disposal.	.g.,
		<u>Large Spills</u> : Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warran Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid	be int.
		discharging liquid directly into a sewer or surface waters.	
		7. HANDLING & STORAGE INFORMATION	
7.1	Work & Hygiene Practices:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g. apron, boots, etc.) to prevent skin contact.	
7.2	Storage & Handling:	Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible inert material such as vermiculite or sand to soak up the product and place into a container for later disposal.	le,
		Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill	



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8.1	Exposure Limits:		ACC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)					ES-	ES-				
		CHEMICAL NAME(S) COPPER (II) NITRATE, TRIHYDRATE	TLV (1)	STEL NA	NF	STEL NF	PEAK NF	(1)	STEL NA	IDLH NA	
		PHOSPHORIC ACID	(1)	(3)	NF	NF	NF	NA	NA NA	1000	
		SELENIOUS ACID	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA NA	NA	
		AMMONIUM HYDROGEN DIFLUORIDE	(2.5)	NA	(2.5)	NA	NA	(2.5)	NA NA	NA	
8.2	Ventilation & Engineering	Use local or general exhaust ventilation			/						from th
	Controls:	handling of this product. Ensure appropr station).									
8.3	Respiratory Protection:	In instances where vapors or sprays of the use only protection authorized by 29 CFF CAS Standard Z94.4-93 and applicable Australia.	R §1910.1	134, appl	icable U.S	. State re	gulations	, or the C	anadian		
8.4	Eye Protection:	Safety glasses with side shields must be shield is also recommended.	e used w	hen han	dling or us	sing this	product.	A protect	tive face		
8.5	Hand Protection:	Wear protective, chemical-resistant glove	s (e.g., ne	eoprene)	when usir	ng or han	dling this	product.			
8.6	Body Protection:	A chemical resistant apron and/or prote product.	ective clo	thing are	e recomme	ended wh	nen hand	ling or us	sing this		
		9. PHYSICAL & C	HEMIC	CAL F	PROPE	RTIES	3				
9.1	Appearance:	Blue liquid									
9.2	Odor:	Odorless									
9.3	Odor Threshold:	NA									
9.4	pH:	1.2									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)									
9.7	Flashpoint:	NA									
9.8	Upper/Lower Flammability Limits: Vapor Pressure:	NA NA									
9.10	•	NA									
9.10	Vapor Density:	< 1.0 (air = 1.0)									
	Relative Density:	1.055									
9.12	Solubility:	Complete (water)									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition	NA									
	Temperature:										
9.16	Viscosity:	NA									
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)								
		10. STABILI	TY &	REAC	TIVIT	1					
10.1	Stability:	Stable at normal temperatures.									
10.2	Hazardous Decomposition Products:	Reaction with organics and strong red decomposition may produce selenium, nit									Therm
10.3	Hazardous Polymerization:	Will not occur.									
10.4	Conditions to Avoid:	Excessive heat.	-					-		-	
10.5	Incompatible Substances:	Cyanides, water-reactive substances, st materials, and most metals.	rong red	ucing ag	gents, chlo	rinated o	leaners o	or sanitize	ers, com	bustible	orgar
		11. TOXICOLO	GICAL	. INFC	ORMAT	ION					
11.1	Routes of Entry:	Inhalation: YES		Absor	otion: YES	3		Ing	estion: N	10	
11.2	Toxicity Data:	Phosphoric Acid: LD ₅₀ (oral, rat) = 1530 n	ng/kg		•						
11.3	Acute Toxicity:	See Section 4.4									
11.4	Chronic Toxicity:	See Section 4.5									
11.5	Suspected Carcinogen:	IARC has classified "strong inorganic acid	d mists co	ontaining	sulfuric ad	cid" as Ca	ategory 1	a known	human (carcinor	ien. Tł
		classification applies only to mists contain									- '



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 3/14/2017 SDS Revision: 2.0 11. TOXICOLOGICAL INFORMATION – cont'd 11.6 Reproductive Toxicity This product is not reported to cause 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 cause teratogenic effects in humans Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. Irritancy of Product: 11.7 See Section 4.2 Biological Exposure Indices: 11.8 NE Physician 11.9 Treat symptomatically. Recommendations 12. ECOLOGICAL INFORMATION 12 1 Environmental Stability: No data available. 122 Effects on Plants & No data available. Animals: Effects on Aquatic Life: 12.3 Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC₅₀ (Daphnia magna, 12h) = 4.6 mg/L 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler. 13.2 Special U.S. EPA Hazardous Waste - Characteristic - Corrosive (D002), Characteristic - Toxic (D010) Considerations 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. 49 CFR (GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8,III, LTD QTY (IP VOL ≤ 5.0 L) IATA (AIR): 14.2 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL \leq 0.5 L) 14.3 IMDG (OCN): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) 14.4 (Canadian UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC GND) ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) ADR/RID (EU): 14.5 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL \leq 5.0 L) 14.6 SCT (MEXICO): UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L) 14.7 ADGR (AUS): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) 15. REGULATORY INFORMATION 15.1 SARA Reporting This product contains Selenious Acid, Cupric Sulfate and Phosphoric Acid, substances subject to SARA Title III, section 313 Requirements: reporting requirements 15.2 SARA TPO: NA 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. CERCLA Reportable Selenious Acid: 10 lbs (4.54 kg); Ammonium Hydrogen Difluoride: 100 lbs (45.4 kg); Phosphoric Acid: 5,000 lbs (2,270 kg) 15.4 Quantity: 15.5 Other Federal NA Requirements 15.6 Other Canadian This product has been classified according to the hazard criteria of the CPR and the MSDS contains all Regulations: 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. WHMIS Class E (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects) 15.7 State Regulatory Selenious Acid is found on the following state criteria lists: FL, MA, MN, PA, and WI. Ammonium Hydrogen Difluoride is found on the following state criteria lists: FL, MA, MN, NJ, PA and WA. Phosphoric Acid is found on the following state criteria lists: MA, PA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Rightto-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). Other Requirements: 15.8 NA



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		16. OTHER INFO	DRMATION				
16.1	Other Information:	DANGER! MAY BE CORROSIVE TO METALS. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. TOXIC IF INHALED. Keep only in original packaging. Don not breathe dust or mist. Avoid breathing dust/mist/vapor/spray. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before use. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor. Specific treatment see this container label or section 4 of this SDS. Absorb spillage to prevent material-damage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a corrosion resistant container with a resistant inner liner. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.					
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.					
16.3	Disclaimer:	government regulations must be reviewed for app Technologies' knowledge, the information contained suitability or completeness is not guaranteed and no information contained herein relates only to the spec	HA's Hazard Communication Standard, 29 CFR §1910.1200. Other dicability to this product. To the best of ShipMate's & Birchwood herein is reliable and accurate as of this date; however, accuracy, warranties of any type, either expressed or implied, are provided. The cific product(s). If this product(s) is combined with other materials, all be changed from time to time. Be sure to consult the latest edition.				
16.4	Prepared for:	Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com	BIRCHWOOD® TECHNOLOGIES				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate [®] Dangerous Goods Training & Consulting				



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 2.0

SDS Revision Date: 3/14/2017

DEFINITION OF TERMS

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

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists	
IDLH	Immediately Dangerous to Life and Health	
NOHSC	National Occupational Health and Safety Commission (Australia)	
OSHA	U.S. Occupational Safety and Health Administration	
PEL	PEL Permissible Exposure Limit	
STEL	Short Term Exposure Limit	
TLV	Threshold Limit Value	
TWA	Time Weighted Average	

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.

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:

Α			
В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
Ε			
F		H.	

G				
Н			H, III	
ı				
J			F	
K			Â	
Х	Consult y	our supe andling d	rvisor or irections.	SOPs for



OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity - Repeat Exposure
STOT SE	Specific Target Organ Toxicity - Single Exposure

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:

Minimal Hazard		FLAMMABILITY			
1	Slight Hazard	\			
2	Moderate Hazard	REACTIVITY			
3	Severe Hazard				
4	Extreme Hazard				
ACD	Acidic				
ALK	Alkaline				
COR	Corrosive	/ \ \ \ \ \			
W	Use No Water	HEALTH 💮			
ох	Oxidizer	SPECIAL			
TREFOIL	Radioactive	PRECAUTIONS			

TOXICOLOGICAL INFORMATION:

LD50 Lethal Dose (solids & liquids) which kills 50% of the LC50 Lethal concentration (gases) which kills 50% of the ppm Concentration expressed in parts of material per mill TD16 Lowest dose to cause a symptom	exposed animal			
ppm Concentration expressed in parts of material per mill				
	ion narts			
TD _{in} Lowest dose to cause a symptom	Concentration expressed in parts of material per million parts			
TCLo Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or Lowest dose (or concentration) to cause lethal or tox	cic effects			
TC, TC _o , LC _{io} , & LC _o				
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	PSL Canadian Priority Substances List					
TSCA	TSCA U.S. Toxic Substance Control Act					
EU	EU European Union (European Union Directive 67/548/EEC)					
WGK	Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	®		②	Θ	(%)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\diamondsuit			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment