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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 3.1

SDS Revision Date: 3/14/2018

.1		1.	PRODUC	T & COM	<u>PANY</u>	<u>IDEN</u>	ITIFI	CAT	ON								
1	Product Name:	DEOXIT	® BRAND	TIP TINNI	ER &	CLEA	NER	, (P/I	N TP	C-14	), 14.	2 g					
2	Chemical Name:	NA NA															
3	Synonyms:	DeoxIT® Brand Tip Tinner, PN TPC-14															
1	Trade Names:	DeoxIT® Brand Tip Tinner, PN TPC-14															
5	Product Uses & Restrictions:	Cleaning Compound for Soldering Iron Tips															
3	Distributor's Name:	CAIG Laboratories, Inc.															
7	Distributor's Address:	12200 Thatcher Court, Poway, CA 92064-6876 USA															
3	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN205206)															
9	Business Phone / Fax:	+1 (800) 224	-4123														
				74000	DE117												
_	I 11 20 20 2	T		AZARDS I					D.4.1	10550		2000	<u> </u>				
1	Hazard Identification:		t is classified a criteria of NOH						as DAN	IGERO	US GC	OODS a	according to th				
			CAUSES EYE						KIN RE	ACTIO	N.						
		_	n: Eye Irrit 2; Sk	_													
2	Label Elements:		ements (H): H22		e irritatio	n. H317	– May	cause a	n allerg	jic skin	reactio	n.					
			y Statements														
			280 – Wear pro														
			– If skin irritatio														
			nse cautiously v Continue rinsin										$\langle \cdot \cdot \rangle$				
			taminated clothi														
			ce/attention. Pt										•				
		disposal facil		•							Ü						
3	Other Warnings:	KEEP OUT	OF REACH OF	CHILDREN													
		3. C	<u>OMPOSIT</u>	<u>ION &amp; INC</u>	RED	<u>IENT</u>	INFC	RM/	TIOI	<b>V</b>							
						400			XPOSURI	LIMITS	IN AIR (m OSHA	ng/m³)					
						ACGI			HSC om	-							
						ppii			S- ES	-	ppm						
EM	ICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%		STEL TWA		EL PEA		STEL	IDLH	OTHER				
١		7440-31-5	XP7320000	231-141-8	30-60	(2)	NA	(2) N	IF NF	(2)	NA	NA					
		7783-28-0	TB9375000	231-987-8	30-60	NA	NA	NF N	IF N	NA	NA	NA					
lΜ	ONIUM PHOSPHATE	1103-20-0	1109373000	1231-901-0	130-00	INA	INA	INI I	11   131	INA	INA	INA					
				FIRST AI													
1	First Aid:	Ingestion:											of water or mi				
													ater or milk to a				
											-	-	nber. Provide a				
			estimate of the time at which the material was ingested and the amount of the substance that wa						e amou	nt of t	ne sub	stance that wa					
			swallowed.						ints of lukewari								
		Eves:		not likely: how			Ì		es flus	h with	conious	Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes lifting upper and lower lids, occasionally.					
		Eyes:	Splashes are	•	vever, if	product (	gets in	the ey			copious	s amou					
		Eyes:	Splashes are water for at lea	ast 15 minutes	vever, if lifting up	product goer and le	gets in ower lic	the ey ls, occa	sionally	<i>'</i> .	•						
			Splashes are water for at least Wash thoroug least 15 minut	ast 15 minutes hly with soap a es.	vever, if lifting up nd water	product oper and le	gets in ower lice of cor	the ey ls, occa tact, im	sionally mediate	r. ely flust	n skin w	vith plen	nty of water for a				
			Splashes are water for at lea Wash thoroug least 15 minut Remove victim	ast 15 minutes hly with soap a es. n to fresh air at	vever, if lifting up nd water once. If	product goer and lo	gets in ower lice of cor	the ey ls, occa tact, im	sionally mediate	r. ely flust exygen.	n skin w	vith plen	nty of water for a				
		Skin:	Splashes are water for at lea Wash thoroug least 15 minut Remove victin artificial respir	ast 15 minutes hly with soap a es. h to fresh air at ation. Keep pe	vever, if lifting up nd water once. If rson war	product oper and long	gets in ower lice of cor g difficu and ge	the ey ls, occa tact, im lt, adm	sionally mediate nister c al atten	v. ely flush exygen. tion.	n skin w	vith plen	nty of water for a				
2	Effects of Exposure:	Skin:	Splashes are water for at lea Wash thoroug least 15 minut Remove victin artificial respir If product is sv	ast 15 minutes hly with soap a es. n to fresh air at ation. Keep pe vallowed, may	vever, if lifting up nd water once. If rson war cause na	product goer and long	gets in ower lice of cor g difficu and ge miting	the ey ls, occa tact, im lt, adm medic and/or o	sionally mediate nister c al atten diarrhea	v. ely flust exygen. tion.	skin w	rith pler	nty of water for a				
?	Effects of Exposure:	Skin: Inhalation:	Splashes are water for at lea Wash thoroug least 15 minut Remove victin artificial respir. If product is sw. Moderately irr	ast 15 minutes hly with soap a es. n to fresh air at ation. Keep pe vallowed, may	vever, if lifting up nd water once. If rson war cause na	product goer and long	gets in ower lice of cor g difficu and ge miting	the ey ls, occa tact, im lt, adm medic and/or o	sionally mediate nister o al atten diarrhea	v. ely flust exygen. tion.	skin w	rith pler	nty of water for a				
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 3/14/2018 4. FIRST AID MEASURES - cont'd 4.5 Chronic Health Effects: Non-irritating when used as directed. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis 4.6 Target Organs: Eyes, Skin. Medical Conditions 4.7 Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This product is not flammable. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO,CO<sub>x</sub>). 5.2 Extinguishing Methods: Water, Foam, CO2, Dry Chemical, Halon (if permitted). Use water spray to cool unopened containers. 5.3 Firefighting Procedures: Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. 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. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product and place into a container for later disposal. Do not use water or a material such as "speedy dry" to soak up material. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a plastic container or plastic liner within another container. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Contents under pressure. Handle as to avoid puncturing container(s). When used as intended, no additional protective equipment is necessary. Use chemical googles if eve contact is possible. Wash unintentional residues with soap and warm water. 7.2 Storage & Handling: Store at temperatures between 59 °F and 95 °F (15 °C and 35 °C) in a dry, well-ventilated location. Keep away from heat, sparks, open flame, and other sources of ignition. Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Normal shelf-life: 2-3 years. 7.3 Special Precautions: Clean all spills promptly. Spilled material may present a slipping hazard. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Exposure Limits: ACGIH NOHSC **OSHA** OTHER ppm (mg/m<sup>3</sup>) TLV CHEMICAL NAME(S) STEL **ES-TWA ES-STEL ES-PEAK** STEL **IDLH** NA (2) NF NA 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general Controls exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station) 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where dusts of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Eve Protection: 8.4 Avoid eye contact. Wear splash proof goggles or equivalent eye protection (ANSI Z87). Safety glasses need to be used when handling or using this product. 8.5 Hand Protection: Impermeable gloves required. May cause skin irritation in some sensitive individuals. When handling wear rubber, nitrile or impervious plastic gloves. 8.6 Body Protection: No apron required when handling small quantities. When handling large quantities (e.g., ≥ 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.



13.2

Special Considerations:

## SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 3/14/2018 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Silver paste 92 Odor: Low odor when heated 9.3 Odor Threshold: NA 9.4 NA 9.5 Melting Point/Freezing Point: >232 °C (500°F) 9.6 Initial Boiling Point/Boiling >260 °C (500 °F) 9.7 Flashpoint: NA Upper/Lower Flammability 9.8 NA 9.9 Vapor Pressure: NA 9.10 Vapor Density: NA Relative Density: 9.11 NA Solubility: 9.12 Tin insoluble, ammonium phosphate water soluble 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA NA 9.17 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions; unstable with heat or contamination. Hazardous Decomposition 10.2 Oxides of carbon (CO, CO<sub>2</sub>). Products 10.3 Hazardous Polymerization: Will not occur. Open flames, sparks, high heat, incompatible substances and direct sunlight. 104 Conditions to Avoid 10.5 Incompatible Substances: Avoid extreme heat and ignition sources. Store away from oxidizers. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: YES 11.1 Routes of Entry: 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is not presented in this document. 11.3 Acute Toxicity: Moderate irritation to eyes and skin near affected areas 11.4 Chronic Toxicity: This material may aggravate any pre-existing skin condition (e.g., dermatitis). 11.5 Suspected Carcinogen: This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov 11.6 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 cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 117 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 118 Biological Exposure Indices: NF 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There is no specific data available for this product. 12.2 Effects on Plants & Animals: There are no specific data available for this product. 12.3 Effects on Aquatic Life: There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Products covered by this SDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Dispose of in accordance with federal, state and local regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with

all relevant local, state, federal and provincial 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						
14.1	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  NOT REGULATED					
14.3	IMDG (OCN):	NOT REGULATED NOT REGULATED					
14.4	TDGR (Canadian GND):	NOT REGULATED					
14.5	ADR/RID (EU):	NOT REGULATED					
14.6	SCT (MEXICO):	NOT REGULATED					
14.7	ADGR (AUS):	NOT REGULATED					
		NOT REGULATED					
		15. REGULATORY INFORMATION					
15.1	SARA Reporting Requirements:	This product does not contain a substance subject to SARA Title III, section 313 reporting requirements.					
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.					
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.					
15.4	CERCLA Reportable Quantity (RQ):	NA					
15.5	Other Federal Requirements:	NA NA					
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS 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.					
		Tin is found on the following state criteria list: Massachusetts Hazardous Substances List (MA), New Jersey Right-to-Know List (NJ) and Pennsylvania Right-to-Know List (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 Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).					
15.8	Other Requirements:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .					
		16. OTHER INFORMATION					
16.1	Other Information:						
10.1	Cities mornation.	WARNING! CAUSES EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. Use only as directed. Keep out of reach of children. Avoid contact with skin. Avoid contact with eyes. Wear suitable protective clothing. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). If skin irritation occurs: get medical advice/attention. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.					
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.					
16.3	Disclaimer:	This 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 is 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  Tel: +1 (800) CAIG-123 (244-4123)  Fax: +1 (858) 486-8398 fax  http://www.caig.com/					
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, Inc. Dangerous Goods Training & Consulting					



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### **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	IDLH Immediately Dangerous to Life and Health	
NOHSC National Occupational Health and Safety Commission (Australia)		
OSHA	U.S. Occupational Safety and Health Administration	
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

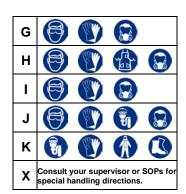
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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	
Е			
F		THE SECOND	





#### 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

FLAMMABILI	TY 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	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ <b>Y ₩ Y</b>
₩	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exposed animals
Lethal concentration (gases) which kills 50% of the exposed animal
Concentration expressed in parts of material per million parts
Lowest dose to cause a symptom
Lowest concentration to cause a symptom
Lowest dose (or concentration) to cause lethal or toxic effects
International Agency for Research on Cancer
National Toxicology Program
Registry of Toxic Effects of Chemical Substances
Bioconcentration Factor
Median threshold limit
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)	
WGK	Wassergefährdungsklassen (German Water Hazard Class)

### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	<b>*</b>	<b>(2)</b>		$\odot$	(4)		
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