SAFETY DATA SHEET

Finished Product



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Paste Flux 26-331770, 26-331930

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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Brand Name	26-331770, 26-331930	
Product Description:	Petroleum Based Soldering Flux	
Product Code	26-331770, 26-331930	
Marketer Contact Information:	NTE Electronics, Inc.	
	44 Farrand Street	
	Bloomfield, NJ 07003	
	973-748-5089	
Emergency Phone:	CHEMTREC 800-424-9300	

SECTION 2. HAZARDS IDENTIFICATION

SECTION 2. HAZARDS IDENTIFICATION		
Hazards Classification	Classified according to the criteria of the G	lobally harmonized
	System of Classification and Labeling of Che	emicals (GHS), The
	United States Occupational Safety and heal	th Administration's
	Hazard Communication Standard (29 CFR 19	10.1200), Canada's
	Hazardous Product Regulations and Mexico's Harmonized System	
	for the Identification and Communication of Hazards and risks from	
	Hazardous Chemicals in the Workplace.	
Health Hazards	Skin Corrosion/Irritation	Category 1
	Serious Eye Damage/Eye Irritation	Category 1
Environmental Hazards	Acute Hazards to the Aquatic Environment	Category 1
	Chronic Hazards to the Aquatic Environment	Category 1

GHS Label Elements

Hazard Pictograms	
Single Word	Danger
Hazard Statements	Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention	Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the
	environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. IF IN SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

SECTION 2. HAZARDS IDENTIFICATION (Cont'd)

Precautionary Statements (Cont'd)

Response (Cont'd)	Continue rinsing. Collect spillage
Storages	Store locked up.
Disposal	Dispose of contents/container to an approved facility in accordance
	with local, regional, national and international regulations.

Other Hazards Which Do Not Result In GHS Classification

Conclusion/Summary	Overexposure to fumes and gases from the solder and/or flux
	material can be hazardous. Read and understand the manufacturer's
	instructions, Safety Data Sheets and precautionary labels before
	using this product.

Substance(s) Formed Under the Conditions of Use

Conclusion/Summary	Fumes produced from use of this product may contain the following
	constituent(s) and/or their complex metallic oxides as well as solid
	particles of other constituents from the solder, brazing consumable,
	flux material or base metal, or base metal coating not listed below.

Chemical Identity	CAS-No.
Carbon Dioxide	124-38-9
Carbon Monoxide	630-08-0
Nitrogen Dioxide	10102-44-0
Ozone	10028-15-6

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

Reportable Hazardous Ingredients Mixtures

Chemical Name	CAS Number	Content in Percent (%) *
Zinc Chloride	7646-85-7	25 - <50%
Ammonium Chloride	12125-02-9	1 - <5%

^{*}All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments

Conclusion/Summary	The term "Hazardous Ingredients" should be interpreted as a term
	defined in Hazard Communication standards and does not
	necessarily imply the existence of a welding hazard. The product
	may contain additional non-hazardous ingredients or may form
	additional compounds under the condition of use. Refer to Sections 2
	and 8 for more information.

SECTION 4. FIRST-AID MEASURES

Ingestion	Avoid hand, clothing, food, and drink contact with fluxes, metal
Insection	
	fume or powder which can cause ingestion of particulate during hand
	to mouth activities such as drinking, eating, smoking, etc. If
	ingested, do not induce vomiting. Contact a poison control center.
	Unless the poison control center advises otherwise, wash out mouth
	thoroughly with water. If symptoms develop, seek medical attention
	at once.
Inhalation	Move to fresh air if breathing is difficult If breathing has stopped,
	perform artificial respiration and obtain medical assistance at once
Skin Contact	Remove contaminated clothing and wash skin thoroughly with soap
	and water. For reddened or blistered skin, or thermal burns, obtain
	medical assistance at once.
Eye Contact	Immediately flush with plenty of water for at least 15 minutes. If
	easy to do, remove contact lenses. Call a physician or poison control
	center immediately.

SECTION 4. FIRST-AID MEASURES (Cont'd)

Most Important Symptoms/Effects, Acute and Delayed

Symptoms	Short-term (acute) overexposure to fumes and gases from welding	
	and allied processes may result in discomfort such as metal fume	
	fever, dizziness, nausea, or dryness or irritation of nose, throat, or	
	eyes. May aggravate pre-existing respiratory problems (e.g. asthma,	
	emphysema). Long-term (chronic) overexposure to fumes and gases	
	from welding and allied processes can lead to siderosis (iron deposits	
	in lung), central nervous system effects, bronchitis and other	
	pulmonary effects. Refer to Section 11 for more information.	
Hazards	The hazards associated with welding and its allied processes such as	
	soldering and brazing are complex and may include physical and	
	health hazards such as but not limited to electric shock, physical	
	strains, radiation burns (eye flash), thermal burns due to hot metal or	
	spatter and potential health effects of overexposure to fumes, gases	
	or dusts potentially generated during the use of this product. Refer to	
	Section 11 for more information.	

Indication of Immediate Medical Attention and Special Treatment Needed

Treatment	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

SECTION 3. FIRE FIGHTING MEASURES					
General Fire Hazards	As shipped, this product is nonflammable. However, welding arc and				
	sparks as well as open flames and hot surfaces associated with				
	brazing and soldering can ignite combustible and flammable				
	materials. Read and understand American National Standard Z49.1,				
	"Safety in Welding, Cutting and Allied Processes" and National Fire				
	Protection Association NFPA 51B, "Standard for Fire Prevention				
	during Welding, Cutting and Other Hot Work" before using this				
	product.				
Suitable Extinguishing Media:	Use fire-extinguishing media appropriate for surrounding materials.				
Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher, as this will spread the fire.				
Specific Hazards Arising from the Chemical:	During fire, gases hazardous to heath may be formed.				
Special Fire Fighting Procedures	Use standard firefighting procedures and consider the hazards of				
	other involved materials.				
Special Protective Equipment for Fire-Fighters	Selection of respiratory protection for fire fighting: follow the				
	general fire precautions indicated in the workplace. Self-contained				
	breathing apparatus and full protective clothing must be worn in case				
	of fire.				

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment	If airborne dust and/or fume is present, use adequate engineering		
and Emergency Procedures	controls and, if needed, personal protection to prevent overexposure.		
	Refer to recommendations in Section 8.		
Methods and Materials for Containment and	Absorb spill with vermiculite or other inert material, then place in a		
Cleaning Up	container for chemical waste. Dike far ahead of larger spill for later		
	recovery and disposal.		
Notification Procedures	Dike for later disposal. Prevent entry into waterways, sewer,		
	basements or confined areas. Stop the flow of material, if this is		
	without risk.		
Environmental Precautions	Avoid release to the environment. Prevent further leakage or spillage		
	if safe to do so. Do not contaminate water sources or sewer.		

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Prevent abrading consumable materials or creating dust. Provide appropriate exhaust ventilation at places where fume or dust is formed. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.		
	Read and understand the manufacturer's instruction and the precautionary label on the product. See American National Standard Z49.1, "Safety In Welding, Cutting and Allied Processes" published by the American Welding Society, http://pubs.aws.org and OSHA Publication 2206 (29CFR1910), U.S. Government Printing Office,		
	www.gpo.gov. Do not get in eyes. Wash hands thoroughly after handling.		
Conditions for Safe Storage, Including any	Store in closed original container in a dry place. Store in accordance		
Incompatibilities	with local/regional/national regulations. Store away from		
	incompatible materials		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION CONTROL PARAMETERS

Occupational Exposure Limits: US

Chemical Identity	Type	Exposure Limit Value	Source
Zinc Chloride - Fume	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values (12 2010)
	STEL	2 mg/ m ³	US. ACGIH Threshold Limit Values (12 2010)
	REL	1 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	STEL	2 mg/ m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Zinc Chloride	IDLH	50 mg/ m ³	US. NIOSH, Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Zinc Chloride - Fume	PEL	1 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum Chloride - Fume	TWA	10 mg/ m ³	US. ACGIH Threshold Limit Values (12 2010)
	STEL	20 mg/ m ³	US. ACGIH Threshold Limit Values (12 2010)
	REL	10 mg/ m^3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	STEL	20 mg/ m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Ammonium Chloride – Total Dust	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Ammonium Chloride – Respirable Fraction	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	5 mg/ m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Ammonium Chloride – Total Dust	TWA	15 mg/ m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Ammonium Chloride – Respirable Fraction	PEL	5 mg/ m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Ammonium Chloride – Total Dust	PEL	15 mg/ m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS Occupational Exposure Limits: Canada

Chemical Identity	Type	Exposure Limit Value	Source
Zinc Chloride - Fume	STEL	2 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code Schedule 1, Table 2), as amended (07 2009)
	TWA	1 mg/ m ³	Canada. Alberta OELs (Occupational Health & Safety Code Schedule 1, Table 2), as amended (07 2009)
	TWA	1 mg/ m ³	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	2 mg/m ³	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	1 mg/ m ³	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)
	STEL	2 mg/m ³	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)
	TWA	1 mg/ m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	STEL	2 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	8 HR ACL	1 mg/ m ³	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	TWA	1 mg/ m ³	Canada. Quebec OELs (Ministry of Labor – Regulation respecting occupational health and safety), as amended (09 2017)
	STEL	2 mg/m ³	Canada. Quebec OELs (Ministry of Labor – Regulation respecting occupational health and safety), as amended (03 2020)
Ammonium Chloride - Fume	STEL	20 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	10 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	10 mg/m ³	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	20 mg/m ³	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS

Occupational Exposure Limits: Canada (Cont'd)

Chemical Identity	Type	Exposure Limit Value	Source
	TWA	10 mg/m ³	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)
	STEL	20 mg/m ³	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)
	TWA	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	STEL	20 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	15 MIN ACL	20 mg/m ³	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	8 HR ACL	10 mg/m ³	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	STEL	20 mg/m ³	Canada. Quebec OELs (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	10 mg/m ³	Canada. Quebec OELs (Ministry of Labor – Regulation respecting occupational health and safety), as amended (09 2017)

Occupational Exposure Limits: Mexico

Occupational Exposure Limits: Mexico			
Chemical Identity	Type	Exposure Limit Value	Source
Zinc Chloride - Fume	VLE-CT	2 mg/m^3	Mexico. OELs (NOM-010-STPS-2014
			Chemical Pollutants at the Workplace;
			Assessment and Control), as amended (04
			2014)
	VLE-PPT	1 mg/m^3	Mexico. OELs (NOM-010-STPS-2014
			Chemical Pollutants at the Workplace;
			Assessment and Control), as amended (04
			2014)
Ammonium Chloride	VLE-CT	20 mg/m^3	Mexico. OELs (NOM-010-STPS-2014
			Chemical Pollutants at the Workplace;
			Assessment and Control), as amended (04
			2014)
	VLE-PPT	10 mg/m^3	Mexico. OELs (NOM-010-STPS-2014
			Chemical Pollutants at the Workplace;
			Assessment and Control), as amended (04
			2014)

Additional Exposure Limits Under the Conditions of Use: US

Chemical Identity	Type	Exposure Limit Value	Source
Carbon Dioxide	TWA	5,000 ppm	US. ACGIH Threshold Limit Values (12
			2010)
	STEL	30,000 ppm	US. ACGIH Threshold Limit Values (12
			2010)
	PEL	5,000 ppm 9,000 mg/m ³	US. OSHA table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000) (02
			2006)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS

Additional Exposure Limits Under the Conditions of Use: US (Cont'd)

Chemical Identity	Chemical Identity Type Exposure Limit Value		imit Value	Source
Carbon Dioxide	STEL	30,000 ppm	54,000 mg/m ³	US. NIOSH; Pocket Guide to Chemical Hazards, as amended (2005)
	REL	5,000 ppm	9,000 mg/m ³	US. NIOSH; Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	40,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Carbon Monoxide	TWA	25 ppm		US. ACGIH Threshold Limit Values (12 2010)
	PEL	50 ppm	55mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	35 ppm	40mg/m^3	US. NIOSH; Pocket Guide to Chemical Hazards, as amended (2005)
	Ceil_Time	200 ppm	229mg/m ³	US. NIOSH; Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	1200 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Nitrogen Dioxide	TWA	0.2 ppm		US. ACGIH Threshold Limit Values (02 2012)
	Ceiling	5 ppm	9 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	1 ppm	1.8 mg/m^3	US. NIOSH; Pocket Guide to Chemical Hazards, as amended (2005)
	IDLH	20 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
	IDLH	13 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Ozone	PEL	0.1 ppm	0.2 mg/m^3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceil_Time	0.1 ppm	0.2 mg/m^3	US. NIOSH; Pocket Guide to Chemical Hazards, as amended (2005)
	TWA	0.05 ppm		US. ACGIH Threshold Limit Values (03 2014)
	TWA	0.10 ppm		US. ACGIH Threshold Limit Values (03 2014)
	TWA	0.08 ppm		US. ACGIH Threshold Limit Values (03 2014)
	IDLH	5 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
	TWA	0.20 ppm		US. ACGIH Threshold Limit Values (02 2020)

Additional Exposure Limits Under the Conditions of Use: Canada

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Chemical Identity	Type	Exposure Limit Value	Source	
Carbon Dioxide	STEL	30,000 ppm 54,000 mg/m ³	Canada. Alberta OELs (Occupational	
			Health & Safety Code, Schedule 1, Table	
			2), as amended (07 2009)	
	TWA	5,000 ppm 9,000 mg/m ³	Canada. Alberta OELs (Occupational	
			Health & Safety Code, Schedule 1, Table	
			2), as amended (07 2009)	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS Additional Exposure Limits Under the Conditions of Use: Canada (Cont'd)

Chemical Identity	Type	Exposure Limit Value	Source
Carbon Dioxide	TWA	5,000 ppm	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	15,000 ppm	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	5,000 ppm	Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)
	STEL	30,000 ppm	Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)
	STEL	30,000 ppm	Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	5,000 ppm	Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	5,000 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	15 MIN ACL	30,000 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	TWA	5,000 ppm 9,000 mg/m ³	Canada. Quebec OELs (Ministry of Labor Regulation respecting occupational health and safety), as amended (09 2017)
	STEL	30,000 ppm 54,000 mg/m ³	Canada. Quebec OELs (Ministry of Labor Regulation respecting occupational health and safety), as amended (09 2017)
Carbon Monoxide	TWA	25 ppm 29 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	25 ppm	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	100 ppm	Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm	Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS Additional Exposure Limits Under the Conditions of Use: Canada (Cont'd)

Chemical Identity	Type	Exposure L		Source
Carbon Monoxide	TWA	25 ppm		Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	25 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	15 MIN ACL	190 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	TWA	35 ppm	40 mg/m ³	Canada. Quebec OELs (Ministry of Labor Regulation respecting occupational health and safety), as amended (09 2017)
	STEL	200 ppm	230 mg/m ³	Canada. Quebec OELs (Ministry of Labor Regulation respecting occupational health and safety), as amended (09 2017)
Nitrogen Dioxide	STEL	5 ppm	9.4 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	3 ppm	5.6 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	CEILING	1 ppm		Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.2 ppm		Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2011)
	STEL	5 ppm		Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	3 ppm		Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	8 HR ACL	3 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	15 MIN ACL	5 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	TWA	3 ppm	5.6 mg/m ³	Canada. Quebec OELs (Ministry of Labor Regulation respecting occupational health and safety), as amended (09 2017)
Ozone	STEL	0.3 ppm	0.6 mg/m^3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	0.1 ppm	0.2 mg/m^3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS Additional Exposure Limits Under the Conditions of Use: Canada (Cont'd)

Chemical Identity	Type	Exposure Lin		Source
Ozone	TWA	0.1 ppm	0.2 mg/m^3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	TWA	0.05 ppm		Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.1 ppm		Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.08 ppm		Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.2 ppm		Canada. British Columbia OELs (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.1 ppm	0.2 mg/m ³	Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	STEL	0.3 ppm	0.6 mg/m ³	Canada. Ontario OELs (Control of Exposure to Biological or Chemical Agents), as amended (07 2010)
	15 MIN ACL	0.15 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	8 HR ACL	0.05 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996 Table 21), as amended (05 2009)
	CEILING	0.1 ppm	0.2 mg/m ³	Canada. Quebec OELs (Ministry of Labor Regulation respecting occupational health and safety), as amended (12 2008)
	TWA	0.05 ppm		Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2014)
	TWA	0.08 ppm		Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2014)
	TWA	0.10 ppm		Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (03 2014)
	TWA	0.20 ppm		Canada. Manitoba OELs (reg. 217/2006, The Workplace Safety and Health Act), as amended (02 2020)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS

Additional Exposure Limits Under the Conditions of Use: Mexico

Chemical Identity	Type	Exposure Limit Value	Source
Carbon Dioxide	VLE-CT	30,000 ppm	Mexico. OELs (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-PPT	5,000 ppm	Mexico. OELs (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Carbon Monoxide	VLE-PPT	25 ppm	Mexico. OELs (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Nitrogen Dioxide	VLE-PPT	0.2 ppm	Mexico. OELs (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Ozone	VLE-P	0.1 ppm	Mexico. OELs (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Appropriate Engineering Controls

Ventilation	Use enough ventilation and local exhaust at the arc, flame or heat
	source to keep the fumes and gases from the worker's breathing zone
	and the general area. Train the operator to keep their head out of the
	fumes. Keep exposure as low as possible.

Individual Protection Measures, such as Personal Protective Equipment

General Information	Exposure Guidelines: To reduce the potential for overexposure,	
33	use controls such as adequate ventilation and personal protective	
	equipment (PPE). Overexposure refers to exceeding applicable local	
	limits, the American Conference of Governmental Industrial	
	Hygienists (ACGIH) Threshold Limit Values (TLVs) or the	
	Occupational Safety and health Administration's (OSHA)	
	Permissible Exposure Limits (PELs). Workplace exposure levels	
	should be established by competent industrial hygiene assessments.	
	Unless exposure levels are confirmed to be below the applicable	
	local limit, TLV or PEL, whichever is lower, respirator use is	
	required. Absent these controls, overexposure to one or more	
	compound constituents, including those in the fume or airborne	
	particles, may occur resulting in potential health hazards. According	
	to the ACGIH, TLVs and Biological Exposure Indices (BEIs)	
	"represent conditions under which ACGIH believes that nearly all	
	workers may be repeatedly exposed without adverse health effects."	
	The ACGIH further states that the TLV-TWA should be used as a	
	guide in the control of health hazards and should not be used to	
	indicate a fine line between safe and dangerous exposures. See	
	Section 10 for information on constituents which have some	
	potential to present health hazards. Welding consumables and	
	materials being joined may contain chromium as an unintended trace	
	element. Materials that contain chromium may produce some	
	amount of hexavalent chromium (CrVI) and other chromium	
	compounds as a byproduct in the fume. In 2008, the American	
	Conference of Governmental Industrial Hygienists (ACGIH)	
	lowered the Threshold Limit Value (TLV) for hexavalent chromium	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS Individual Protection Measures, such as Personal Protective Equipment (Cont'd)

Individual Protection Measures, such as Personal Protective Equipment (Cont'd)			
	from 50 micrograms per cubic meter of air (50 µg/m³) to 0.2 µg/m³. At these new limits, CrVI exposures at or above the TLV may be possible in cases where adequate ventilation is not provided. CrVI compounds are on the IARC and NTP lists as posing a lung cancer and sinus cancer risk. Workplace conditions are unique and welding fume exposures levels vary. Workplace exposure assessment must be conducted by a qualified professional, such as an industrial hygienist, to determine if exposures are below applicable limits and to make recommendations when necessary for preventing overexposures. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.		
Eye/Face Protection	Wear helmet, face shield or eye protection with filter lens shade number 2 for torch soldering and 3-4 for torch brazing, and follow the recommendations as specified in ANSI Z49.1, Section 4, based on your process details. Shield others by providing appropriate screens and eye protection. Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.		
Skin/Hand Protection	Wear protective gloves. Suitable gloves can be recommended by the glove supplier.		
Protective Clothing	Wear hand, head, and body protection which help to prevent injury from radiation, open flames, hot surfaces, sparks and electrical shock. See Z49.1. At a minimum, this includes welder's gloves and a protective face shield when welding, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing when welding, brazing and soldering. Wear dry gloves free of holes or split seams. Train the operator not to permit electrically live parts or electrodes from contacting the skin or clothing or gloves if they are wet. Insulate yourself from the work piece and ground using dry plywood, rubber mats or other dry insulation.		
Respiratory Protection	Keep your head out of fumes. Use enough ventilation and local exhaust to keep fumes and gases from your breathing zone and the general area. An approved respirator should be used unless exposure assessments are below applicable exposure limits.		
Hygiene Measures	Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits See ANSI/AWS F1.1, F1.2, F1.3 and F1.5, available from the American Welding Society, www.aws.org . Do not get in eyes. Observe good industrial hygiene practices.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Soldering Flux
Physical State	Paste
Form	Paste
Color	Black
Odor	No Data Available
Odor Threshold	No Data Available
pH	1.7
Melting Point/Freezing Point	No Data Available
Initial Boiling Point and Boiling Range	No Data Available.
Flash Point	No Data Available
Evaporation Rate	No Data Available.
Flammability (Solid, Gas)	No Data Available.
Flammability Limit – Upper (%)	No Data Available.
Flammability Limit – Lower (%)	No Data Available.
Explosive Limit - Upper	No Data Available
Explosive Limit - Lower	No Data Available
Vapor Pressure	No Data Available.
Vapor Density	No Data Applicable.
Density	0.9500 g/cm3
Relative Density	No Data Available
Solubility in Water	No Data Available
Solubility (Other)	No Data Available
Partition Coefficient: n-octanol/water	No Data Available.
Auto-Ignition Temperature	No Data Available.
Decomposition Temperature	No Data Available.
Viscosity	No Data Available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under normal conditions of use, storage	
	and transport.	
Chemical Stability	Material is stable under normal conditions.	
Possibility of Hazardous Reactions	None under normal conditions.	
Conditions to Avoid	Avoid heat or contamination.	
Incompatible Materials	Strong acids. Strong oxidizing substances. Strong bases	
Hazardous Decomposition Products	Avoid heat or contamination. Strong acids. Strong oxidizing substances. Strong bases Fumes and gases from welding and its allied processes such brazing and soldering cannot be classified simply. The composit and quality of both are dependent upon metal to which the join or hot work is applied, the process, procedure — and wh applicable — the electrode or consumable used. Other condition which also influence the composition and quantity of the fumes a gases to which workers may be exposed include: coatings on metal being welded or worked (such as paint, plating, galvanizing), the number of operators and the volume of the wearea, the quality and amount of ventilation, the position of operator's head with respect to the fume plume, as well as presence of contaminants in the atmosphere (such as chlorina hydrocarbon vapors from cleaning and degreasing activities.) In cases where an electrode or other applied material is consum the fume and gas decomposition products generated are different percent and form from the ingredients listed in Section Decomposition products of normal operation include the originating from the volatilization, reaction, or oxidation of materials shown in Section 3, plus those from the base metal a coating, etc., as noted above. Reasonably expected further and gase decomposition products.	
	constituents produced during arc welding and brazing include the oxides of iron, manganese and other metals present in the welding	

SECTION 10. STABILITY AND REACTIVITY (Cont'd)

consumable or base metal. Hexavalent chromium compounds may be in the welding or brazing fume of consumables or bas metals which contain chromium. Gaseous and particulate fluoride may be in the fume of consumables or flux materials which contain fluoride. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc associated with welding.

SECTION 11. TOXICOLOGICAL INFORMATION

General Information	The International Agency for Research on Cancer (IARC) has	
	determined welding fumes and ultraviolet radiation from welding	
	are carcinogenic to humans (Group 1). According to IARC, welding	
	fumes cause cancer of the lung and positive associations have been	
	observed with cancer of the kidney. Also, according to IARC,	
	ultraviolet radiation from welding causes ocular melanoma. IARC	
	identifies gouging, brazing, carbon arc or plasma arc cutting, and	
	soldering as processes closely related to welding. Read and	
	understand the manufacturer's instructions, Safety Data Sheets and	
	the precautionary labels before using this product.	

Information on Likely Routes of Exposure

Inhalation	Inhalation is the primary route of exposure. In high concentrations,
	dust, vapors, fumes or mists may irritate nose, throat and mucus
	membranes.
Skin Contact	Moderately irritating to skin with prolonged exposure.
Eye Contact	Causes serious eye damage. HEAT RAYS (INFRARED
	RADIATION) from flame or hot metal can injure eyes.
Ingestion	Avoid ingestion – wear gloves and other appropriate personal
	protection – wash hands thoroughly following use or handling.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Inhalation	Short term (acute) overexposure to fumes and gases from brazing
	and soldering may result in discomfort such as metal fume fever,
	dizziness, nausea, or dryness or irritation of nose, throat, or eyes.
	May aggravate pre-existing respiratory problems (e.g. asthma,
	emphysema). Long-term (chronic) overexposure to fumes and gases
	from brazing and soldering can lead to siderosis (iron deposits in
	lung), central nervous system effects, bronchitis and other
	pulmonary effects. Products which contain lead or cadmium have
	additional specific health hazards – refer to Sections 2, 8, and 11 of
	this SDS. Depending on specific product composition, some
	products may produce hazardous concentrations of airborne oxides
	of cadmium, lead, zinc or fluoride compounds. Use adequate
	ventilation and respiratory protection during use. Avoid breathing
	fumes. Avoid ingestion – wear gloves and other appropriate
	personal protection – wash hands thoroughly following use or
	handling. Inhalation of fumes may cause upper respiratory tract
	irritation and systemic poisoning with early symptoms including
	headache, coughing, and a metallic taste as well as metal fume
	fever. Chronic cadmium exposure causes lung and kidney damage.
	Chronic exposure to lead causes damage to lungs, liver, kidney,
	nervous system as well as blood and musculoskeletal disorders.
	Exposure to high levels of cadmium or lead dust or fume may be
	immediately dangerous to life or health and can cause delayed
	pneumonitis with fever and chest pain, and pulmonary edema
	resulting in death.

SECTION 11. TOXICOLOGICAL INFORMATION (Cont'd)

Information on Toxicological Effects

Acute Toxicity (List All Possible Routes of Exposure)

Oral

Product	ATEmix: 4,267.24 mg/kg	
Specified Substance(s)	Zinc Chloride	LD 50 (Mouse): 1,260 mg/kg
	Ammonium Chloride	LD 50 (Rat): 1,650 mg/kg

Dermal

oduct	Not classified for acute toxicity based on available data.
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Inhalation

uct	Not classified for acute toxicity based on available data.
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Repeated Dose Toxicity

Product	No data available.

Skin Corrosion/Irritation

Product	No data available.
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Serious Eve Damage/Eve Irritation

Product	Causes serious eye damage.

Respiratory or Skin Sensitization

Respiratory Sensitization	Not classified.
Skin Sensitization	Not classified.

Carcinogenicity

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Product	Not classified.	

IARC monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified.

US. National Toxicity Program (NTP) Report on Carcinogens:

No carcinogenic components identified.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified.

Germ Cell Mutagenicity

In Vitro	Not classified.
In Vivo	Not classified.
Product Toxicity	Not classified.

Specific Target Organ Toxicity

Single Exposure	Not classified.
Repeated Exposure	Not classified.

Aspiration Hazard

rispiration riazara	
Product	No data available.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics under the Conditions of Use Additional Toxicological Information under the Conditions of Use:

Acute Toxicity

Inhalation

Specified Substance(s)	Carbon Dioxide	LC Lo (Human, 5 min): 90000 ppm
	Carbon Monoxide	LC 50 (Rat, 4 h): 1300 ppm
	Nitrogen Dioxide	LC 50 (Rat, 4 h): 88 ppm
	Ozone	LC Lo (Human, 30 min): 50 ppm

SECTION 11. TOXICOLOGICAL INFORMATION (Cont'd)

Acute Toxicity (Cont'd)

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O MICH ZILOUS		
Specified Substance(s)	Carbon Dioxide	Asphyxia
	Carbon Monoxide	Carboxyhemoglobinemia
	Nitrogen Dioxide	Lower Respiratory Tract Irritation

SECTION 12. ECOLOGICAL INFORMATION

General Information	Contains a substance which causes risk of hazardous effects to the
	environment.

Ecotoxicity

Acute Hazards to the Aquatic Environment:

Fish

Product	Very toxic to aquatic organisms.	
Specified Substance(s)	Zinc Chloride	LC 50 (Rainbow trout, Donaldson trout
		(Oncorhynchus mykiss), 96 h): $1.85 - 2.55$ mg/l
	Ammonium Chloride	LC 50 (Oncorhynchus mykiss, 96 h): 34.6 mg/l

Aquatic Invertebrates

Product	Very toxic to aquatic organisms.	
Specified Substance(s)	Zinc Chloride	LC 50 (Daphnia magna, 48 h): 100 µg/l
	Ammonium Chloride	EC 50 (Daphnia magna, 96 h): 139 mg/l

Chronic Hazards to the Aquatic Environment:

Fish

Product	Very toxic to aquatic organisms, may cause long-term adverse effects in
	the aquatic environment.

Aquatic Invertebrates

Product	Very toxic to aquatic organisms, may cause long-term adverse effects in
	the aquatic environment.

Toxicity to Aquatic Plants

Product	No data available.
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Persistence and Degradability

Biodegradation

Product	No data available.
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Bioaccumulative Potential

Bioconcentration Factor (BCF)

	Product	No data available.
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Mobility in Soil:

Product	No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

General Information	The generation of waste should be avoided or minimized	
	whenever possible. When practical, recycle in an	
	environmentally acceptable, regulatory compliant manner.	
	Dispose of non-recyclable products in accordance with all	
	applicable Federal, State, Provincial, and Local	
	requirements.	
Disposal Instructions	Discharge, treatment, or disposal may be subject to	
	national, state, or local laws. Do not allow to enter drains,	
	sewers or watercourses.	

SECTION 13. DISPOSAL CONSIDERATIONS (Cont'd)

Contaminated Packaging	Dispose of contents/container to an appropriate treatment
	and disposal facility in accordance with applicable laws and
	regulations, and product characteristics at time of disposal.

SECTION 14. TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA	TDG
UN Number	UN1760	UN1760	UN1760	UN1760
UN Proper	Corrosive liquids, n.o.s	Corrosive liquids, n.o.s	Corrosive liquids, n.o.s	Corrosive liquids, n.o.s
Shipping	(Zinc Chloride)	(Zinc Chloride)	(Zinc Chloride)	(Zinc Chloride)
Name				
Transport	8	8 EmS No.: ERG 154	8	8
Hazard				-
Class(es)	CORROSIVE	CORROSIVE	CORROSIVE	CORROSIVE
	8	8	8	8
Packing	III	III	III	III
Group				
Limited	-	5.00L	-	-
Quantity				
Excepted	-	E1	E1	E1
Quantity				
Marine	No	No	No	No
Pollutant				
Cargo Aircraft	-	-	Allowed	-
Only				

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Section 12(b) Export Notification	None present or none present in regulated quantities.
(40 CFR 707, Subpt. D)	
OSHA Specifically Regulated Substances	None present or none present in regulated quantities.
(29 CFR 1910.1001-1050), as amended	
CERCLA Hazardous Substance List (40 CFR 302.4)	Chemical Identity Reportable Quantity
	Zinc Chloride 1000 lbs.
	Ammonium Chloride 5000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate (Acute) Health Hazard
	Skin Corrosion or Irritation
	Serious Eye Damage or Eye Irritation

SARA 302 Extremely Hazardous Substance

Classification None present or none present in regulated quantities.	Classification	None present or none present in regulated quantities.
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SARA 304 Emergency Release Notification

Classification	None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity	antity

SARA 313 (TRI Reporting)

	Reporting Threshold	Reporting Threshold for
Chemical Identity	For Other Users	Manufacturing and Processing
Zinc Chloride	10000 lbs.	25000 lbs.

SECTION 15. REGULATORY INFORMATION (Cont'd)

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity	Reportable Quantity
Zinc Chloride	1000 lbs.
Ammonium Chloride	5000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65	None present or none present in regulated quantities.
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WARNING: This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code Section 252149.5 et seq.)

WARNING: Cancer and reproductive Harm – www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act	Chemical Identity
	Petrolatum
	Zinc Chloride
	Ammonium Chloride
US. Massachusetts RTK – Substance List	Chemical Identity
	Zinc Chloride
	Ammonium Chloride
US Pennsylvania RTK – Hazardous Substances	Chemical Identity
	Zinc Chloride
	Ammonium Chloride
US. Rhode Island RTK	Chemical Identity
	Zinc Chloride
	Ammonium Chloride

Canada Federal Regulations

Cumula I Caci ai Regulations		
List of Toxic Substances (CEPA, Schedule 1)	Not Regulated.	
Export Control List (CEPA 1999, Schedule 3)	Not Regulated.	

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

Greenhouse Gases

Classification	Not Regulated

Controlled Drugs and Substances Act

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

Precursor Control Regulations

Classification	Not Regulated
Classification	110t Regulated

SECTION 15. REGULATORY INFORMATION (Cont'd)

Inventory Status:

Country(s) or Region	Inventory Name	On Inventory
Australia	AICS	One or more components are not listed or are exempt from listing.
Canada	DSL Inventory List	On or in compliance with the inventory.
Canada	NDSL Inventory	One or more components are not listed or are exempt from listing.
Canada	EINECS, ELINCS or NLP	On or in compliance with the inventory.
Canada	Ontario Inventory	On or in compliance with the inventory.
China	IECSC	On or in compliance with the inventory.
Japan	ISHL Listing	One or more components are not listed or are exempt from listing.
Japan	Pharmacopoeia Listing	One or more components are not listed or are exempt from listing.
Japan	ENCS List	One or more components are not listed or are exempt from listing.
Korea	KECI	On or in compliance with the inventory.
Mexico	INSQ	On or in compliance with the inventory.
New Zealand	Inventory of Chemicals	On or in compliance with the inventory.
Philippines	PICCS	On or in compliance with the inventory.
Taiwan	Chemical Substance Inventory	On or in compliance with the inventory.
United States	TSCA Inventory	On or in compliance with the inventory.

SECTION 16. OTHER INFORMATION

Further Information

This information above is believed to be accurate and represents the best information currently available to us. However, neither NTE nor any of its subsidiaries make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.