

SAFETY DATA SHEET

1. Identification

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Product identifier	STAY CLEAN® LIQUID SOLDERING FLUX	
Other means of identification		
SDS number	0099	
Product Type	Liquid flux	
Recommended use	Soldering of metal.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer/Supplier	Harris Products Group 4501 Quality Place Mason, Ohio 45040 US custservmason@jwharris.com	
Telephone number	513-754-2000	
Emergency Telephone Numbers	1-888-609-1762 (US, Canada, Mexico only)	
	Please quote 333988	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 1 (optic nerve)
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.	

OSHA defined hazards

Label elements



Signal word	Danger
Hazard statement	Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. Causes damage to organs (optic nerve).
Precautionary statement	
Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Immediately call a poison center/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

Mixtures

Chemical name		CAS number	%
Ammonium chloride		12125-02-9	5-25
Zinc chloride		7646-85-7	<30
Hydrochloric acid		7647-01-0	<5
Methanol		67-56-1	<5
Composition comments	All concentrations are in percent by weight unless ing percent by volume.	gredient is a gas. Gas	concentrations are ir
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a posit artificial respiration if needed. Call a POISON CENTE		
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.		
Ingestion	Call a physician or poison control center immediately vomiting occurs, keep head low so that stomach con		
Most important symptoms/effects, acute and delayed	Symptoms of inhalation over-exposure may include so breathing. Lung damage may occur after severe inha and concentration of over-exposure, skin or eye cont contaminated tissue. Ingestion overexposure may be inhalation over-exposure may cause burns and ulcer bronchitis, and stomach pains. Repeated or prolonge dermatitis (red, dry, itchy skin) and ulceration.	Ilation exposures. Dep act with this product c harmful or fatal. Prolo s to the nose and thro	pending on the durati an irritate and burn onged or repeated at, dental erosion,
	Dermatitis, other skin disorders, and respiratory conc this product.	litions may be aggrava	ated by over-exposur
Indication of immediate medical attention and special treatment needed	Keep victim under observation. Chemical burns: Flus remove clothes which do not adhere to affected area transport to hospital. Pulmonary function tests, chest prove useful. Consultation with an ophthalmologist is damage. In case of shortness of breath, give oxygen	. Call an ambulance. (X-rays, and nervous a recommended if eye	Continue flushing dui system evaluations n exposure leads to tis
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Sho this safety data sheet to the doctor in attendance.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon diox	ide (CO2). Halons.	
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	This product is acidic and presents a contact hazard gases (e.g., carbon monoxide, carbon dioxide, hydro ammonia) may be generated.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective	e clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so withc	out risk.	
Specific methods	Use standard firefighting procedures and consider th	e hazards of other inv	olved materials.
General fire hazards	No unusual fire or explosion hazards noted. This pro- normal circumstances; however, it may generate flan metals.		

6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear
protective equipment and	appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do
emergency procedures	not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Do not breathe mist or vapor. Provide adequate ventilation. Do not use in areas without adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Handle and open container with care. Observe good industrial hygiene practices. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from direct sunlight, sources of intense heat, or where freezing is possible. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Material should be stored in secondary containers or in a diked area, as appropriate. Storage and use areas should be covered with impervious materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
Zinc chloride (CAS 7646-85-7)	PEL	1 mg/m3	Fume.
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	Form
Ammonium chloride (CAS 12125-02-9)	STEL	20 mg/m3	Fume.
,	TWA	10 mg/m3	Fume.
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m3	Fume.
,	TWA	1 mg/m3	Fume.
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	Form
Ammonium chloride (CAS 12125-02-9)	STEL	20 mg/m3	Fume.
	TWA	10 mg/m3	Fume.
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Methanol (CAS 67-56-1)	STEL	325 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	9	•	/alue	Form
			4	250 ppm	
	TWA	N Contraction of the second se		260 mg/m3	
				200 ppm	
Zinc chloride (CAS 7646-85-7)	STE	L	4	2 mg/m3	Fume.
,	TWA	N .		l mg/m3	Fume.
logical limit values					
ACGIH Biological Exposur	e Indices				
Components	Value	Determinant	Specimen	Sampling T	ïme
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*	
* - For sampling details, plea	se see the source doo	ument.			
posure guidelines					
US - California OELs: Skin	designation				
Methanol (CAS 67-56-1 US - Minnesota Haz Subs:	/		e absorbed thr	ough the skin.	
Methanol (CAS 67-56-1	• •		esignation app	lies.	
US - Tennessee OELs: Ski	n designation				
Methanol (CAS 67-56-1 US ACGIH Threshold Limit	,		e absorbed thr	ough the skin.	
Methanol (CAS 67-56-1	-		e absorbed thr	ouah the skin.	
US. NIOSH: Pocket Guide				5	
Methanol (CAS 67-56-1)	Can b	e absorbed thr	ough the skin.	
propriate engineering ntrols	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. Eye wash facilities and emergency shower must be available when handling this product.				
lividual protection measures					
Eye/face protection	Chemical respirato	r with organic vapo	r cartridge and	full facepiece.	
Skin protection					
Hand protection	Wear neoprene or	0			
Other	Wear appropriate of	hemical resistant c	lothing. Use of	an impervious	apron is recommended.
Respiratory protection	Chemical respirato	r with organic vapo	r cartridge and	full facepiece.	
Thermal hazards	Wear appropriate t	hermal protective c	lothing, when r	ecessary.	
neral hygiene nsiderations		ling the material ar	d before eating	, drinking, and	iene measures, such as /or smoking. Routinely was

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid. Liquid
Color	Clear colorless.
Odor	Slightly sweet.
Odor threshold	Not available.
рН	Acidic.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not flammable.
Evaporation rate	> 1 (nBuAc = 1).
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

opper/lower naminability of exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	4 (air = 1).
Relative density	1.32 (water = 1).
Solubility(ies)	
Solubility (water)	Slightly soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	Litmus paper will turn red upon contact with this product. The odor may also act as a distinguishing characteristic of this product.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Extreme temperatures.
Incompatible materials	Acid. alkalis and their carbonates, hydrogen cyanide, interhalogens, ammonium nitrate, potassium chlorate, lead and silver salts. Strong oxidizing agents. Amines. Do not mix with other chemicals. This product is neither flammable nor reactive under normal circumstances; however, it may generate flammable hydrogen gas upon contact with metals.
Hazardous decomposition products	Carbon dioxide (CO2). Nitrogen oxides (NOx). Ammonia. Hydrogen Chloride (HCI). Zinc oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs by inhalation. If vapors, mists, or sprays of this product are inhaled, they can irritate and burn the nose, throat, and respiratory system. Symptoms of inhalation over-exposure may include sore throat, choking, coughing, and difficulty breathing. Prolonged or repeated over-exposure may cause burns and ulcers to the nose and throat, dental erosion, bronchitis, and stomach pains. It has been reported that a worker developed asthmatic symptoms after performing soldering work with a flux containing Ammonium and Zinc Chlorides (components of this product). It has been reported that inhalation of Methanol (a component of this product) vapors in high concentrations can cause blindness. Severe inhalation overexposure may cause pulmonary edema (a life-threatening accumulation of fluid in the lungs) or pneumonitis. Symptoms of pulmonary edema (e.g., shortness of breath, chest pains) can be delayed for several hours after exposure. Severe inhalation of vapors or fumes (as may occur if individuals are exposed in poorly ventilated areas, such as confined spaces) may be harmful.
Skin contact	Causes severe skin burns. Depending on the duration and concentration of over-exposure, skin contact with this product can irritate and burn the skin. Repeated or prolonged over-exposure to this product may result in dermatitis (red, dry, itchy skin) and ulceration. Methanol (a component of this product) is readily absorbed through the skin. Because Methanol is a minor component of this product, skin absorption is not anticipated to be a significant route of over-exposure.
Eye contact	Depending on the duration and concentration of over-exposure, eye contact with this product can irritate and burn the eyes. Eye over-exposure can cause pain, tearing, and redness. Severe eye over-exposure may cause blindness. Causes serious eye damage.
Ingestion	Harmful if swallowed. Causes digestive tract burns. If this flux is ingested, nausea, vomiting, and diarrhea may occur (depending on the amount of the product swallowed). Severe ingestion exposures may result in damage to the tissues of the gastrointestinal system, and death.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms of inhalation over-exposure may include sore throat, choking, coughing, difficulty breathing. Lung damage may occur after severe inhalation exposures. Depending on the duration and concentration of over-exposure, skin or eye contact with this product can irritate and burn contaminated tissue. Ingestion overexposure may be harmful or fatal. Prolonged or repeated inhalation over-exposure may cause burns and ulcers to the nose and throat, dental erosion, bronchitis, and stomach pains. Repeated or prolonged over-exposure to this product may result in dermatitis (red, dry, itchy skin) and ulceration.

Dermatitis, other skin disorders, and respiratory conditions may be aggravated by over-exposure to this product.

Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful if swallowed. May cause respiratory irritation.

Acute toxicity	Species Test Results		
Components			
Hydrochloric acid (CAS 7647-01-0))		
Acute			
Inhalation			
LC50	Rat	3124 mg/l, 1 Hours	
Oral			
LD50	Rabbit	900 mg/kg	
Vethanol (CAS 67-56-1)			
Acute			
Inhalation			
LC50	Rat	22500 ppm, 8 hours	
Oral			
LD50	Rat	6200 mg/kg	
* Estimates for product may b	be based on additional component da	ata not shown.	
Skin corrosion/irritation	Causes severe skin burns and eye	e damage.	
Serious eye damage/eye rritation	Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
		r developed asthmatic symptoms after performing soldering wo and Zinc Chlorides (components of this product).	
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to I	be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Hydrochloric acid (CAS OSHA Specifically Regulate Not listed.	7647-01-0) 3 ed Substances (29 CFR 1910.1001-	Not classifiable as to carcinogenicity to humans. -1050)	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects. Clinical studies on test animals exposed to relatively high doses of Methanol and Zinc Chloride (components of this product) indicate teratogenic effects and adverse reproductive effects.		
Specific target organ toxicity - single exposure	Causes damage to organs (optic i	nerve). May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harn	nful.	
12. Ecological information	n		
Ecotoxicity	Very toxic to aquatic life with long	lasting effects	

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Hydrochloric acid (CAS	6 7647-01-0)		
Aquatic			
Fish	LC50	Western mosquitofish	(Gambusia affinis) 282 mg/l, 96 hours
* Estimates for product	may be based on	additional component data r	not shown.
ersistence and degradal	bility No data is	s available on the degradabil	ity of this product.
oaccumulative potentia	l		
Partition coefficient n	-octanol / water (log Kow)	
Methanol (CAS 67-56-	1)	-0.77	
obility in soil	No data a	vailable.	
her adverse effects			ts (e.g. ozone depletion, photochemical ozone creation warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Zinc Chloride, Hydrochloric Acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Zinc Chloride, Hydrochloric Acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Zinc Chloride, Hydrochloric Acid)

Transport hazard class(es)	0				
Class Subsidiary risk	8				
Subsidiary risk Label(s)	- 8				
Packing group	UI				
Environmental hazards					
Marine pollutant	Yes				
EmS	Not availabl				
Special precautions for use	r Read safety Not establis		DS and emergency pro	cedures before handling	g.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	NOT ESTABILS	neu.			
General information	DOT Regula	ated Marine Pol	lutant. IMDG Regulated	d Marine Pollutant.	
15. Regulatory information	า				
US federal regulations	Standard, 2	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.			
TSCA Section 12(b) Export	Notification (40 CFR 707, Su	ubpt. D)		
Not regulated. OSHA Specifically Regulate	d Substance	s (29 CFR 1910).1001-1050)		
Not listed. CERCLA Hazardous Substa	nce List (40 (CFR 302.4)			
Ammonium chloride (CAS	S 12125-02-9)		LISTED		
Hydrochloric acid (CAS 7			LISTED		
Methanol (CAS 67-56-1)			LISTED		
Zinc chloride (CAS 7646-	,		LISTED		
Superfund Amendments and Re Hazard categories	Immediate I	•			
	Delayed Ha Fire Hazard	zard - No - No			
	Delayed Ha	zard - No - No azard - No			
SARA 302 Extremely hazard	Delayed Ha Fire Hazard Pressure Ha Reactivity H	zard - No - No azard - No lazard - No			
SARA 302 Extremely hazard	Delayed Ha Fire Hazard Pressure Ha Reactivity H	zard - No - No azard - No lazard - No	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
SARA 302 Extremely hazaro Chemical name CA	Delayed Ha Fire Hazard Pressure Ha Reactivity H	zard - No - No azard - No azard - No ce Reportable quantity	planning quantity	planning quantity, lower value	planning quantity, upper value
SARA 302 Extremely hazaro Chemical name CA	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number	zard - No - No azard - No lazard - No ce Reportable quantity (pounds)	planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
SARA 302 Extremely hazaro Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number	zard - No - No azard - No lazard - No ce Reportable quantity (pounds)	planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
SARA 302 Extremely hazaro Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number	zard - No - No azard - No lazard - No ce Reportable quantity (pounds)	planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
SARA 302 Extremely hazaro Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) <u>Chemical name</u> Ammonium chloride	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number	zard - No - No azard - No lazard - No ce Reportable quantity (pounds)	planning quantity (pounds) 500 CAS number 12125-02-9	planning quantity, lower value (pounds) % by wt. 5-25	planning quantity, upper value
SARA 302 Extremely hazaro Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) <u>Chemical name</u> Ammonium chloride Zinc chloride	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number	zard - No - No azard - No lazard - No ce Reportable quantity (pounds)	planning quantity (pounds) 500 CAS number 12125-02-9 7646-85-7	planning quantity, lower value (pounds) % by wt. 5-25 <30	planning quantity, upper value
SARA 302 Extremely hazaro Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) <u>Chemical name</u> Ammonium chloride	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number	zard - No - No azard - No lazard - No ce Reportable quantity (pounds)	planning quantity (pounds) 500 CAS number 12125-02-9	planning quantity, lower value (pounds) % by wt. 5-25	planning quantity, upper value
SARA 302 Extremely hazard Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) <u>Chemical name</u> Ammonium chloride Zinc chloride Hydrochloric acid Methanol	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number	zard - No - No azard - No lazard - No ce Reportable quantity (pounds)	planning quantity (pounds) 500 CAS number 12125-02-9 7646-85-7 7647-01-0	planning quantity, lower value (pounds) % by wt. 5-25 <30 <5	planning quantity, upper value
SARA 302 Extremely hazara Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Chemical name Ammonium chloride Zinc chloride Hydrochloric acid Methanol Other federal regulations	Delayed Ha Fire Hazard Pressure Ha Reactivity H Jous substan S number 47-01-0 Yes	zard - No - No azard - No lazard - No ce Reportable quantity (pounds) 5000	planning quantity (pounds) 500 CAS number 12125-02-9 7646-85-7 7647-01-0 67-56-1	planning quantity, lower value (pounds) % by wt. 5-25 <30 <5	planning quantity, upper value
SARA 302 Extremely hazaro Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Chemical name Ammonium chloride Zinc chloride Hydrochloric acid Methanol Other federal regulations Clean Air Act (CAA) Section Hydrochloric acid (CAS 7 Methanol (CAS 67-56-1)	Delayed Ha Fire Hazard Pressure Ha Reactivity H Jous substan S number 17-01-0 Yes 112 Hazardo 647-01-0)	zard - No - No azard - No azard - No ce Reportable quantity (pounds) 5000	planning quantity (pounds) 500 CAS number 12125-02-9 7646-85-7 7647-01-0 67-56-1 nts (HAPs) List	planning quantity, lower value (pounds) % by wt. 5-25 <30 <5 <5 <5	planning quantity, upper value
SARA 302 Extremely hazard Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Chemical name Ammonium chloride Zinc chloride Hydrochloric acid Methanol Other federal regulations Clean Air Act (CAA) Section Hydrochloric acid (CAS 7 Methanol (CAS 67-56-1) Clean Air Act (CAA) Section	Delayed Ha Fire Hazard Pressure Ha Reactivity H Jous substan S number 17-01-0 Yes 112 Hazardo 647-01-0)	zard - No - No azard - No azard - No ce Reportable quantity (pounds) 5000	planning quantity (pounds) 500 CAS number 12125-02-9 7646-85-7 7647-01-0 67-56-1 nts (HAPs) List	planning quantity, lower value (pounds) % by wt. 5-25 <30 <5 <5 <5	planning quantity, upper value
SARA 302 Extremely hazara Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Chemical name Armonium chloride Zinc chloride Hydrochloric acid Methanol Other federal regulations Clean Air Act (CAA) Section Hydrochloric acid (CAS 7 Methanol (CAS 67-56-1) Clean Air Act (CAA) Section Hydrochloric acid (CAS 7	Delayed Ha Fire Hazard Pressure Ha Reactivity H lous substan S number 47-01-0 Yes 47-01-0 Yes 4112 Hazardo 647-01-0) 4 112(r) Accid 647-01-0)	zard - No - No azard - No azard - No ce Reportable quantity (pounds) 5000	planning quantity (pounds) 500 CAS number 12125-02-9 7646-85-7 7647-01-0 67-56-1 nts (HAPs) List	planning quantity, lower value (pounds) % by wt. 5-25 <30 <5 <5 <5	planning quantity, upper value
SARA 302 Extremely hazard Chemical name CA Hydrochloric acid 764 SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Chemical name Ammonium chloride Zinc chloride Hydrochloric acid Methanol Other federal regulations Clean Air Act (CAA) Section Hydrochloric acid (CAS 7 Methanol (CAS 67-56-1) Clean Air Act (CAA) Section	Delayed Ha Fire Hazard Pressure Ha Reactivity H Jous substan S number 17-01-0 Yes 112 Hazardo 647-01-0)	zard - No - No azard - No azard - No ce Reportable quantity (pounds) 5000	planning quantity (pounds) 500 CAS number 12125-02-9 7646-85-7 7647-01-0 67-56-1 nts (HAPs) List	planning quantity, lower value (pounds) % by wt. 5-25 <30 <5 <5 <5	planning quantity, upper value

		2, Essential Chemicals (21 CFR 1310.02(b)	and 1310.04(f)(2) and
Chemical Code Numb Hydrochloric acid	(CAS 7647-01-0)	6545 1 & 2 Exempt Chemical Mixtures (21 CFR 1	240 42(a))
Hydrochloric acid DEA Exempt Chemic	(CAS 7647-01-0) al Mixtures Code Number	20 %WV	310.12(C))
Hydrochloric acid	(CAS 7647-01-0)	6545	
US state regulations			
US. Massachusetts RTK - Ammonium chloride (C Hydrochloric acid (CAS Methanol (CAS 67-56- Zinc chloride (CAS 764	AS 12125-02-9) 5 7647-01-0) 1)		
US. New Jersey Worker a		(now Act	
Ammonium chloride (C Hydrochloric acid (CAS Methanol (CAS 67-56- Zinc chloride (CAS 764 US. Pennsylvania Worker	5 7647-01-0) 1) 16-85-7)	-Know I aw	
•			
Ammonium chloride (C Hydrochloric acid (CAS Methanol (CAS 67-56- Zinc chloride (CAS 764	5 7647-01-0) 1)		
US. Rhode Island RTK Ammonium chloride (C Hydrochloric acid (CAS Methanol (CAS 67-56- Zinc chloride (CAS 764	\$ 7647-01-0) 1)		
US. California Proposition WARNING: This produ harm.		wn to the State of California to cause birth def	fects or other reproductive
US - California Propo Methanol (CAS 67	-	Reproductive Toxicity (CRT): Listed subs	tance
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory of	Chemical Substances (AICS)	Yes
Canada	Domestic Substances	List (DSL)	Yes
Canada	Non-Domestic Substar	nces List (NDSL)	No
China	Inventory of Existing C	hemical Substances in China (IECSC)	Yes
Europe		Existing Commercial Chemical	Yes

Europe	European List of Notified Chemical Substances (ELINCS)
Japan	Inventory of Existing and New Chemical Substances (ENCS)
Korea	Existing Chemicals List (ECL)
New Zealand	New Zealand Inventory
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	18-February-2015
Revision date	-
Version #	01

No Yes Yes Yes Yes

Yes



Disclaimer

Harris Products Group cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.