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Safety Data Sheet acc. to OSHA GHS (29 CFR 1910.1200)

Printing date 09/10/2015 Reviewed on 09/10/2015

1 Identification

· Product identifier

· Trade name: Stay Clean® Paste Soldering Flux

· Other means of identification

· SDS Number: 0136

· Recommended use and restriction on use

· Recommended use: Metal Soldering

· Restrictions on use: No relevant information available.

· Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier: Harris Products Group 4501 Quality Place Mason, Ohio 45040 US

513-754-2000

· Safety Data Sheet Questions: salesinfo@jwharris.com

· Arc Welding Safety Information: www.lincolnelectric.com/safety

· 24-Hour Emergency Response Telephone Numbers:

1-866-519-4752 (USA, Canada, Mexico only)

(+) 1-760-476-3962

· 3E Company Access Code: 333895

2 Hazard(s) identification

Classified according to the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Controlled Products Regulations.

· Classification of the substance or mixture



GHS08 Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

· Additional information:

Classifications are based on the results of actual product testing as performed using GLP practices. There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:







GHS05 GHS07 GHS08

· Signal word: Danger

· Hazard-determining components of labeling:

zinc chloride ethanediol ammonium chloride

· Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection.
P270 Do not eat, drink or smoke when using this product.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water.

P330 Rinse mouth.

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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- · Additional information:
- Other hazards which do not result in GHS classification:

Heat rays (infrared radiation) from flame or hot metal can injure eyes. Overexposure to soldering fumes and gases can be hazardous. Read and understand the manufacturer's instructions, Safety Data Sheets and the precautionary labels before using this product.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
7646-85-7	zinc chloride	< 40%
107-21-1	ethanediol	< 15%
12125-02-9	ammonium chloride	< 10%

Additional information:

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

· Composition comments:

The term "Dangerous components" should be interpreted as a term defined in Hazard Communication standards and does not necessarily imply the existence of a hazard. The product may contain additional nonhazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.

4 First-aid measures

- Description of first aid measures
- · General information: No special measures required.
- · After inhalation:

Move to fresh air if breathing is difficult. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.

· After skin contact:

Remove contaminated clothing and wash the skin thoroughly with soap and water. For reddened or blistered skin, or thermal burns, obtain medical assistance at once.

· After eye contact:

Dust or fume from this product should be flushed from the eyes with copious amounts of clean, tepid water until transported to an emergency medical facility. Do not allow victim to rub or keep eyes tightly closed. Obtain medical assistance at once.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- · Information for doctor
- · Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

Breathing difficulty

Coughing

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Danger:

Soldering hazards are complex and may include physical and health hazards such as but not limited to infrared radiation from flame or hot metal, physical strains, thermal burns due to hot metal or spatter and potential health effects of overexposure to soldering fume or dust. Refer to Section 11 for more information.

· Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

As shipped, the product will not burn. In case of fire in the surroundings: use appropriate extinguishing agent.

- · For safety reasons unsuitable extinguishing agents: For metal fires: Use specific agents only.
- Special hazards arising from the substance or mixture

Infrared radiation from flame or hot metal can ignite combustibles and flammable products.

- · Advice for firefighters
- Special fire fighting procedures:

Use standard firefighting procedures and consider the hazards of other involved materials.

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information:

Read and understand American National Standard Z49.1, "Safety In Welding, Cutting and Allied Processes" and National Fire rotection Association NFPA 51B, "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" before using this product.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8.

· Environmental precautions:

Avoid release to the environment.

Damp down dust with water spray.

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Clean up spills immediately, observing precautions in the personal protective equipment in Section 8. Avoid generating dust. Prevent product from entering any drains, sewers or water sources.

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

- · Handling
- · Precautions for safe handling:

Avoid breathing dust.

Ensure good ventilation/exhaustion at the workplace.

Any deposit of dust which cannot be avoided must be regularly removed.

Read and understand the manufacturer's instruction and the precautionary label on the product. Refer to Lincoln Safety Publications at www.lincolnelectric.com/safety. 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.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Store in closed original container in a dry place. Store away from incompatible materials. Store in accordance with local/regional/national regulations.

- · Information about storage in one common storage facility: No special requirements.
- · Further information about storage conditions: No special requirements.
- · Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Exposure Guidelines:

Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) are values published by the American Conference of Government Industrial Hygienists (ACGIH). ACGIH Statement of Positions Regarding the TLVs® and BEIs® 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 Sections 2, 3, 8, 10, and 11 for information on potential fume constituents of health interest. Threshold Limit Values are figures published by the American Conference of Government Industrial Hygienists.

• Components with limit values that require monitoring at the workplace: These components may be present

7646-85-7 zinc chloride	
PEL (USA)	Long-term value: 1 mg/m³ Fume
REL (USA)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³
TLV (USA)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³ fume

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EL (Canada)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³ fume
EV (Canada)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³ fume
LMPE (Mexico)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³
107-21-1 ethan	ediol
TLV (USA)	Short-term value: NIC-127* mg/m³ Long-term value: NIC-10** NIC-63.5* mg/m³, NIC-25* ppm Ceiling limit value: (100) mg/m³ (H); *inh. fraction + vapor,P:**inh. fraction, H
EL (Canada)	Short-term value: 20** mg/m³ Long-term value: 10** mg/m³ Ceiling limit value: 100* mg/m³, 50*** ppm *Aerosol; **Particulate; ***Vapour
EV (Canada)	Ceiling limit value: 100 mg/m³
LMPE (Mexico)	Ceiling limit value: 100* mg/m³ A4, *solo aerosol
12125-02-9 ami	monium chloride
REL (USA)	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³
TLV (USA)	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³
EL (Canada)	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³ fume
EV (Canada)	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³ fume
LMPE (Mexico)	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³

- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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.

Keep away from foodstuffs, beverages and feed.

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- · Engineering controls: No relevant information available.
- · Ventilation

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

Breathing equipment:

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.

· Protection of hands:



Thermally-protective gloves.

Suitable gloves can be recommended by the glove supplier.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection:



Wear glasses or face shield with appropriate shading for brazing operations.

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

9 Physical and chemical properties

Appearance:		
Form:	Pasty	
Color:	Opaque	
	Silver-colored	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition:		
Melting point/Melting range:	37-60 °C (99-140 °F)	
Boiling point/Boiling range:	Not determined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	

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Auto igniting:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	<1	
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with:		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/water): Not determined.		
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No relevant information available.	

10 Stability and reactivity

- · Reactivity: The product is non-reactive under normal conditions of use, storage and transport.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions:
- Reacts with strong acids and alkali.
- Reacts with strong oxidizing agents.
- · Conditions to avoid: No relevant information available.
- · Incompatible materials: No relevant information available.
- Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Hydrogen chloride (HCI)

Ammonia

Toxic metal oxide smoke

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Soldering fumes and gases cannot be classified simply. The composition and products: quantity of both are dependent upon the metal being joined, the process, procedure and filler metals and flux used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being joined (such as paint, plating, or galvanizing), the number of operators and the volume of the worker area, the quality and amount of ventilation, the position of the operator's head with respect to the fume and fumes from chemical fluxes used in some soldering operations.

11 Toxicological information

- · Information on likely routes of exposure
- · Ingestion: Unlikely route of exposure.
- · Inhalation:

Potential chronic health hazards related to the use of welding consumables are most applicable to the inhalation route of exposure.

- · Skin Contact: Heat rays can burn skin.
- Eye Contact: Heat rays (infrared radiation from flame) or hot metal can injure eyes.
- · Information on toxicological effects
- · Inhalation

Short-term (acute) overexposure to soldering fumes 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 soldering fumes can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects.

· Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:		
7646-85	7646-85-7 zinc chloride		
Oral	LD50	350 mg/kg (rat)	
107-21-	107-21-1 ethanediol		
Oral	LD50	5840 mg/kg (rat)	
Dermal	LD50	9530 mg/kg (rabbit)	
12125-02-9 ammonium chloride			
Oral	LD50	1650 mg/kg (rat)	

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: Based on available data, the classification criteria are not met.
- · Additional toxicological information:

Organic polymers may be used in the manufacture of various welding consumables. Overexposure to their decomposition byproducts may result in a condition known as polymer fume fever. Polymer fume fever usually occurs within 4 to 8 hours of exposure with the presentation of flu like symptoms, including mild pulmonary irritation with or without an increase in body temperature. Signs of exposure can include an increase in white blood cell count. Resolution of symptoms typically occurs quickly, usually not lasting longer than 48 hours.

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- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Other information relevant to carcinogenicity

Cancerous lesions have been reported in persons exposed to arc rays.

- · Acute effects (acute toxicity, irritation and corrosivity): Harmful if swallowed.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- · Persistence and degradability: No relevant information available.
- · Behavior in environmental systems
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- **Ecotoxical effects:**
- · Remark: Very toxic for fish
- Additional ecological information
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Very toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects: No relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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Uncleaned packagings

· Recommendation: Disposal in accordance with official regulations.

14 Transport information

· UN-Number

· DOT Not Regulated. · ADR, IMDG, IATA UN3082

· UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· DOT Not Regulated.

· ADR, IATA 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (Zinc chloride)

· IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (Zinc chloride)

Transport hazard class(es)

· Class Not Regulated.

· ADR



9 (M6) Miscellaneous dangerous substances and articles · Class

· Label

· IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles

· Label

· Packing group

Not Regulated.

· ADR, IMDG, IATA

· Environmental hazards

· Marine pollutant:

No

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Symbol (fish and tree)

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Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler):	90
EMS Number:	F-A,S-F
Transport in bulk according to Annex II	of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Remarks:	Transport labeling is not required for non-bulk singl
	package shipments by motor vehicle, rail car or aircraf
	Bulk packaging consists of a maximum capacity of greate
	than 450L (119 gallons) for a liquid and a maximum ne
	mass greater than 400kg (882 pounds) for a solid.
UN "Model Regulation"	UN 3082 ENVIRONMENTALLY HAZARDOU
	SUBSTANCES, LIQUID, N.O.S., 9, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · US Federal Regulations

None of the ingredients are listed.

- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 304 (emergency release notification):

None of the ingredients are listed.

· Sections 311/312 (hazardous chemical threshold planning quantity in pounds):

None of the ingredients are listed.

· Section 313 (TRI reporting)

107-21-1 ethanediol

7646-85-7 zinc chloride

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· CERCLA Hazardous Substance List (40 CFR 302.4):

12125-02-9 ammonium chloride

107-21-1 ethanediol

7646-85-7 zinc chloride

TSCA (Toxic Substances Control Act)

All ingredients are listed.

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(Cont'd. of page 12) · Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities. · Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities. · Proposition 65 (California) · Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. Chemicals known to cause developmental toxicity: 107-21-1 ethanediol Carcinogenic categories EPA (Environmental Protection Agency): 7646-85-7 zinc chloride D, I, II TLV (Threshold Limit Value established by ACGIH): 107-21-1 ethanediol NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed. State Right to Know Listings · US. New Jersey Worker and Community Right-to-Know Act zinc chloride ethanediol ammonium chloride US. Massachusetts RTK - Substance List zinc chloride ethanediol ammonium chloride · US. Pennsylvania RTK - Hazardous Substances zinc chloride ethanediol ammonium chloride · US. Rhode Island RTK zinc chloride ethanediol ammonium chloride

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- · Canada
- · Canadian substance listings
- · Canadian Domestic Substances List (DSL):

All ingredients are listed.

· Canada Non-Domestic Substances List (NDSL)

None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%):

	zinc chloride
	ethanediol
12125-02-9	ammonium chloride

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

· Date of preparation / last revision 09/10/2015 / -

· Abbreviations and acronyms:

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

· Sources

Website, European Chemicals Agency (http://http://echa.europa.eu/)

Website, US EPA Substance Registry Services (http://http://ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (https://www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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· Disclaimer:

We urge each end user and recipient of this SDS to study it carefully. If necessary consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product.

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 use, 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.