

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Details
Trade Name: **STAG FLUX SPRAY**
Product No: 32-582-0817
Recommended Use: STAG Flux Spray is recommended for use for copper pipe soldering.
Use Restrictions: To be used as recommended.
Supplier Details: Liquid Colours (Pty) Ltd, P.O. Box 2685, Edenvale 1610, South Africa
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SDS date: 29.05.2019
SDS version: **v20.03.2023**

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture according to SANS 10234:2008 Edition 1.1 and Regulation (EC) Number 1272/2008 (CLP):

- Warning – Causes skin irritation
- Warning - Causes Serious eye damage
- Harmful if swallowed
- Maybe harmful if inhaled
- Harmful to aquatic life
- Keep away from children

Full List of statements given under section 15

Hazard Symbols:



SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	Cas Number	Weight (%)
Zinc Chloride	7646-85-7	≤28
Hydrochloric Acid 25%		≤2
Water	57-55-6	≤5
Other Components below reportable values		≤80

SECTION 4 – FIRST AID MEASURES

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Seek medical attention.

Skin contact (slight): In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention.

Skin contact (prolonged): Wash thoroughly with disinfectant soap. Seek medical attention.

Inhalation (slight): If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention.

Inhalation (prolonged): Evacuate the victim to a safe area as soon as possible. Loosen tight clothing and resuscitate if required taking care not to inhale toxic fumes. Seek medical attention.

Ingestion (slight): Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water Fog, Carbon Dioxide, Dry Powder Foam. **Do not use Water Jet for extinguishing fires but may be used to keep containers cool.**

Flammable: Fire Fighters need to use suitable protective clothing while firefighting.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should only be employed in processes in which this product is used under supervision.
Avoid contact with skin, eyes and clothing.
Do not inhale fumes/vapours.
Keep away from foodstuffs and beverages.
Wash hands after use.

Protective Equipment: Wear protective clothing, solvent resistant gloves, boots and eye goggles/face mask. Work in a well-ventilated area and wear respiratory protective equipment.

Environmental Precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

Containment and Clean-Up: Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container for disposal in accordance with the waste regulations. Do not allow to enter drains or waterways.

SECTION 7 – HANDLING & STORAGE

Handling: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation.

Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Component	Cas Number	Source	TWA Value	STEL
Zinc Chloride	7646-85-7	ACGIH TLV	1mg/m ³	2mg/m ³
Hydrochloric Acid 25%	7647-01-0	ACGIH TLV	Data not available	Data not available

LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.
STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes
Note: Limits Shown for guidance only. Follow applicable regulations

Personal Protective Equipment (PPE)

Engineering controls: Use in well -ventilated area. Explosive-proof ventilation equipment with local exhaust is desirable.

Respiratory protection: Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the recommended exposure limit. Self-Contained Breathing Apparatus may be required for use in confined or enclosed spaces. Respirator with a vapour filter (EN 141) is recommended.

Eye protection: Normal industrial eye protection practices should be employed.

Skin and body protection: If prolonged or repeated skin contact is likely wear solvent-resistant gloves and clothing. Good personal hygiene practices should always be followed.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Pale Pink
Odour:	Slight
pH Value:	3.5 – 4.5
Initial Boiling Point:	79°C
Flash Point:	Not applicable
Flammability:	Not applicable
Upper Explosion Limit (UEL):	Not applicable
Lower Explosion Limit (LEL):	Not applicable
Vapour Pressure:	Data not available
Density:	1.23 – 1.26
Solubility in Water:	Miscible in all proportions
Viscosity:	Not applicable
Auto-ignition Temperature:	Data no available
Decomposition Temperature:	Data not available

SECTION 10 – STABILITY & REACTIVITY

Stability:	Stable
Conditions to avoid:	Heat, sparks, flame and build- up of static electricity.
Materials to avoid:	Strong oxidizers and Acids
Hazardous decomposition:	Fumes, smoke and carbon monoxide

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute oral toxicity Rats - LD50:	Causes skin irritation. Warning Hazard Category 4
Acute Inhalation Toxicity Rats - LC50:	>20mg/L
Acute dermal toxicity Rabbits - LD50:	Greater than 2000 mg/kg
Skin irritation Rabbits:	Causes skin irritation
Eye irritation:	Causes serious eye damage
Mutagenicity:	Data not available
Teratogenicity:	Data not available
Carcinogenic effects:	Data not available
STOTE – Single Exposure:	Data not available
STOTE – Repeated Exposure:	Data not available

SECTION 12 – ECOLOGICAL INFORMATION

Elimination information (persistence and degradability):

Biodegradability: Not established

Physicochemical

removability: Not established

Bioaccumulation: Not established

Eco toxicity effects:

Toxicity to fish Juvenile

rainbow trout LC/EC50: Data not available

Further info on ecology: None

Remarks: Toxic to fish, aquatic organisms and wildlife. Do not discharge into lakes, streams, ponds and ground water supply.


SECTION 13 – DISPOSAL CONSIDERATIONS



Waste Disposal: Use of these methods is subject to user compliance with applicable laws and regulations and considerations of product characteristics at time of disposal.


Contaminated Packaging: All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Other regulations: Disposal of unused product may be subject to RCRA regulations (40 CFR261). Disposal of the used product may also be regulated due to ignitability, Corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).

SECTION 14 – TRANSPORT INFORMATION

ADR		Hazard Symbol
UN Number :	1840	
UN Proper shipping name:	Zinc Chloride Solution	
Class:	8	
Letter:	III	
Hazard Label:	8	

Maritime transport IMDG		Hazard Symbol
UN Number :	1840	 
UN Proper shipping name:	Zinc Chloride Solution	
Class:	8	
Letter:	III	
Hazard Label:	8	
EMS Number:	F-E, S-E	
Marine Pollutant:	Yes	
Symbol:	Fish and Tree	

Air Transport ICAO-TI and IATA-DGR		Hazard Symbol
UN Number :	1840	
UN Proper shipping name:	Zinc Chloride Solution	
Class:	8	
Letter:	III	
Hazard Label:	8	

SECTION 15 – REGULATORY INFORMATION

Governmental Inventory
Status:

All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL, KECI, ENCS, PICCS and IECSC.

Material Safety Data Sheet: According to 1907/2006/EC, Article 31

Risk phrases:

- H302 Harmful if swallowed
- H315 Causes Skin Irritation
- H318 Causes serious eye damage
- H333 Maybe harmful if inhaled
- H410 Very toxic to aquatic life with long lasting effect
- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from all sources of ignition. No smoking.
- P233 Keep container tightly closed.
- P261 Avoid breathing vapours.
- P264 Wash hands, face and all exposed skin thoroughly after handling.
- P280 Wear protective clothing, gloves, eye/face protection and suitable respirator
- P304 + P340 - IF INHALED - Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

National regulations
Water hazard class:

Water danger class 3 (Self-assessment): extremely hazardous for water.

Chemical safety
assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

Reason for Issue Update to GHS SDS.

Terms of use: This summarises at the date of issue our best knowledge of health, environmental hazard and safety information related to the product, how to safely handle, use, store and transport the product. Since Liquid Colours cannot anticipate or control the conditions in which the product may be handled, used, stored or transported, every user must prior to usage review the MSDS in relation to intended use, storage and transport of the product in the workplace and elsewhere. Such information should be communicated to all relevant parties. If further information is required, please contact Liquid Colours.

Liquid Colours shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given. Liquid Colours sole and exclusive warranty is that the products comply with Liquid colours published chemical and physical specifications in effect at the time of sale. Liquid Colours liability for claim suits is in all cases limited to the purchase price of the particular quantity of product upon which the claim is based. Under no circumstances shall Liquid Colours be liable for loss of profits or any other indirect and consequential loss or damage resulting from the improper use of the product.

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