

SAFETY DATA SHEET

ISSUE DATE: 08/14/20

Section 1: IDENTIFICATION

Product name: Screen Ink Discharge Additive

Product Code Number: JSI2199

Recommended Use: For screen printing

Manufacturer/supplier identification:

Company:

Telephone No.: 1-800-442-0455 / 707-433-9577

E-mail: service@jacquardproducts.com

Emergency Telephone No.: Emergency Number: ChemTel, Inc. - Contract #MIS9128344
N.America: 1-800-255-3924 / International: 1-813-248-0585

Relevant identified uses of the substance or mixture and uses advised against:

Identified use: Chemical additive.

Section 2: HAZARD(S) IDENTIFICATION

Hazard classification of the chemical: Germ Cell Mutagenicity - Category 2
Reproductive Toxicity - Category 2

Pictogram(s):



Signal Word: Warning

Hazard Statement(s): Suspected of causing genetic defects.
Suspected of damaging the unborn child.

Precaution Statement(s): Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
IF exposed or concerned: Get medical advice / attention.
Store locked up.
Dispose of contents / container to appropriate waste disposal entity in accordance with local / regional / national / international regulation.

Hazards not otherwise classified: *Percentage of the mixture consisting of ingredients of unknown toxicity: 100.0% (Dermal), 100.0% (Inhalation).*

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	Conc.(%)*	CAS #
Methanesulfinic acid, 1-hydroxy-, sodium salt (1:1)	30-60%	149-44-0
* The exact concentration percentage is being withheld as a trade secret. Non-hazardous ingredients are not disclosed.		

Section 4: FIRST-AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occurs during or persists after use of this product, contact a **POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN** immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Route of exposure:	First-aid instructions
Inhalation:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
Eye:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.
Most important symptom or effect:	Suspected of causing genetic defects. Suspected of damaging the unborn child.
Recommendations for immediate medical care:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5: FIRE-FIGHTING MEASURES

Suitable fire-fighting equipment / media:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable fire-fighting equipment / media:	None known.
Hazards that may develop during fire:	May produce hazardous combustion by-products.
Special protective actions for fire-fighters:	Use water spray to keep fire-exposed containers cool. Move containers from fire area if this can be done without risk. Isolate the scene by removing all persons from the vicinity of the fire. No action shall be taken involving any personal risk or without suitable training.
Protective equipment for fire-fighters:	Fire-fighters should wear protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6: ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected
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entering. Do not touch or walk through spilled material. Avoid breathing vapor, dusts or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (PPE).

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable protective equipment. Also heed the precautions in above section: "For non-emergency personnel".

Methods and materials for containment and cleaning up:

For small spills:

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

For large spills:

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled material. See Section 13 for waste disposal.

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 7: HANDLING AND STORAGE

Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapors, dusts or mists. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Empty containers retain product residue and can be hazardous.

Conditions for safe storage and incompatibilities:

Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

Component CAS #	Exposure Limits
Product or its dried residues may form Particulates Not Otherwise Regulated (PNOR).	OSHA-PEL: 15 ppm or 10 mg/m ³ (Total Dust) OSHA-PEL: 5 ppm or 5 mg/m ³ (Respirable Fraction)

Appropriate engineering controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Individual protection measures and Personal Protective Equipment (PPE):

Eye / Face protection: Safety glasses with side shields.
See: ANSI/ISEA Z87 spectacle specifications.

Skin protection: Appropriate gloves, footwear, coveralls, impervious clothing, and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Glove selection: Latex (if not sensitized); Nitrile; Polyvinyl Alcohol (PVA); Chloroprene; or Butyl Rubber gloves should be used. Inspect gloves prior to wearing to be free of defects and replace if they break through.

Respiratory protection: Respirator selection is based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the occupational exposure limits, they must use appropriate, certified respirators.
If needed, the respirator must be a single use (disposable) or it must be equipped with a quarter-mask, half-mask, helmet / hood, or full facepiece. Air purifying respirators must use N, R, or P series filters. The filter must be NIOSH classification 95, 99, or 100.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Turbid, light to white
Odor: Slight, acidic
Odor threshold: Not determined
pH: 10.8 - 11.2
Melting/Freezing point: 32 F
Boiling point / range: 212 F
Flash point: Not determined
Evaporation rate: Not determined
Flammability: Not flammable
Lower flammability limits: Not determined
Upper flammability limits: Not determined
Vapor pressure: Not determined
Vapor density: Not determined
Relative density: Not determined
Solubilities: Soluble in water
Partition coefficient: Not determined
Auto-ignition temp.: Not determined

Decomposition temp.: Not determined
Viscosity: < 20 cps

Section 10: STABILITY AND REACTIVITY

Reactivity: No specific reactivity is known.

Chemical stability: No specific instability is known to exist.

Possible hazardous reactions: No specific hazardous reactions known for this material.

Conditions to avoid: No specific conditions to avoid are known.

Incompatible materials: No specific incompatible materials are known.

Hazardous decomposition products: Decomposition of the product or its container may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen and/or respirable dust.

Section 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure:

Inhalation exposure: No specific information on inhalation hazards.

Ingestion exposure: No specific information on ingestion hazards.
Acute toxicity estimate: Oral > 5000 mg/kg bw

Skin contact: No specific information on skin contact hazards.

Eye contact: No specific information on eye exposure.

Overexposure, signs & symptoms:

Immediate, delayed and chronic effects: May have delayed effect of causing genetic defects.

Information on acute toxicological effects:

Component CAS	Result	Species	Dose	Exposure
149-44-0	LD50	rat	>2000 mg/kg bw	oral

Listing as a carcinogen:

Component CAS	OSHA	IARC	NTP
No carcinogen component			

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity data:

Component CAS	Daphnia: LC50, 4 hr.	P. Promelas: LC50, 96 hr.	T. Pyriformis: ICG50.
149-44-0	-	3615.6 mg/l	-

Persistence and degradability:

Component CAS	Environmental Half Life (days)	Atmos. Hydrolyation Rate (cm ³ /mol*s)(x10 ⁻¹²)	Metabolic Biotransformation in Fish, Half Life (days)
149-44-0	4.59	0.172	0.15

Bioaccumulation potential and soil mobility:

Component CAS	Octanol-Water Partition LogPow	Bioconcentration Factor BCF	Soil Absorption Coefficient Koc (l/Kg)
149-44-0	-0.930	5.41	2.6

Section 13: DISPOSAL CONSIDERATIONS

Disposal method:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products must comply with the requirements of environmental protection and waste disposal legislation and any national, state, regional or local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

Section 14: TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN Number:	Not dangerous good.	Not dangerous good.	Not dangerous good.
UN Proper Shipping Name:			
Hazard Class:			
Packing Group:			
Environmental Hazards:			
Marine Pollutant:			

Additional precautions:

When moving within users' premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15: REGULATORY INFORMATION

EPCRA Section 302 (EHS) TPQ:	Contains no material in Section 302 of EPCRA.
EPCRA Section 304 (EHS) RQ:	Contains no material in Section 304 of EPCRA.
CERCLA RQ:	Contains no material in CERCLA.
EPCRA (SARA) Section 313:	Contains no material in Section 313 (SARA) of EPCRA.
RCRA Code:	Contains no listing in RCRA.
CAA Section 112r TQ:	Contains no material in Section 112r of CAA.
TSCA Inventory:	All components listed as active on the current TSCA inventory.
California Prop. 65:	Contains no material on California Proposition 65 list.

Section 16: OTHER INFORMATION

The information contained in this SDS is based on data from sources considered to be reliable but Dharma Trading Co. does not guarantee the accuracy or completeness thereof. Dharma Trading Co. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

Date of SDS Preparation: 14 August 2020

Key to abbreviations:

- OSHA - US Occupational Safety and Health Administration.*
- NIOSH - US National Institute for Occupational Safety and Health.*
- EPCRA - US Emergency Planning and Community Right-to-Know Act.*
- CERCLA - US Comprehensive Environmental Response, Compensation and Liability Act.*
- SARA - US Superfund Amendments and Reauthorization Act.*
- CAA - US Clean Air Act.*
- ACGIH - American Conference of Governmental Industrial Hygienists.*
- CALOSHA - California Division of Occupational Safety and Health.*
- ANSI - American National Standards Institute.*
- IARC - International Agency for Research on Cancer.*
- NTP - US National Toxicology Program.*
- DOT - US Department of Transportation.*
- IMDG - International Maritime Dangerous Goods Code.*
- IATA - International Air Transport Association.*
- PEL-TWA - Permissible Exposure Limit, Time Weighted Average.*
- PEL-STEL - Permissible Exposure Limit, Short Term Exposure Limit.*
- PEL-C - Permissible Exposure Limit, Ceiling.*
- REL-TWA - Recommended Exposure Limit, Time Weighted Average.*
- REL-STEL - Recommended Exposure Limit, Short Term Exposure Limit.*
- REL-C - Recommended Exposure Limit, Ceiling.*
- TLV-TWA - Threshold Limit Value, Time Weighted Average.*
- TLV-STEL - Threshold Limit Value, Short Term Exposure Limit.*
- TLV-C - Threshold Limit Value, Ceiling.*
- SKIN - Exposure may occur through skin absorption.*
- CAS # - Chemical Abstracts Service Registry Number.*
- PPE - Personal Protective Equipment.*
- EHS - Extremely Hazardous Substance.*

TPQ - Threshold Planning Quantity.

TQ - Threshold Quantity.

RQ - Reportable Quantity.

bw - Body Weight.

LD50/LC50 - Lethal Dose / Lethal Concentration 50%; Median lethal dose.

ICG50 - Inhibitory Concentration for Growth 50%; Concentration that inhibits growth by half.

NOEL - No Observable Effect Level.

Section 12 includes data from US EPA Toxicity Estimation Software Tool.

