



**GANS INK
& SUPPLY CO.**

Safety Data Sheet

**In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200) and
Guidelines of Regulation (EC) No 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010**

SECTION 1: Identification of the Substance/ Mixture and of the Company undertaking

1.1 Product Identifier

Product Name: Pyrosoft Setting Solution
GANS Item ID: F-8251
SDS Number: 222
Product Type: Waterbased dye Setting solution

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Product Use: Auxiliary washing preparation
1.2.2 Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Manufacturer: Gans Ink and Supply Co, Inc.
Address: 1441 Boyd Street
Los Angeles, CA 90033
Contact Person: Marco Ramos
Telephone: 323- 264-2200 / 1-800 421-6167
Fax: 323-264 2916
Email: MSDS @gansink.com

1.4 Emergency telephone number:

Available only during business hours.
(323) 264-2200 Monday- Friday 7:00 A.M. – 9:00 P.M.
Available 24 Hours: Los Angeles County Fire Department / HazMat. Department

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.2: This material is hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification under CLP: Not classified

Components: Irritating to eyes. May cause skin irritation

Specific target organ toxicity: Not determined

The most important adverse environmental effects: No Data available

Biodegradability (Product): No Data available

Bioaccumulation (Product) : No Data available

Toxicity to fish (Product): See section 12



**GANS INK
& SUPPLY CO.**

2.2 Label elements

Hazard Pictograms:



Signal Word (S): Warning

X Irritant

Hazard Statements:

Causes eye irritation Category 2B H320

Causes skin irritation Category 3 H316

May be harmful if swallowed Category 2 H305

May cause respiratory irritation Category 3 H335

Precautionary Statement-

P261: Avoid breathing dust/vapors/mist/ fumes. Inhalation of mist may irritate the nose, throat, and upper respiratory tract.

P 262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. Ingestion of product may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

2.3 Other hazards

None known

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

<u>CAS# / EC#</u>	<u>REACH No.</u>	<u>% by weight</u>	<u>Substance Name</u>	<u>Classification</u>
7732-18-5 / 231-791-2		60- 100	Water	Not classified
50862-68-5/		5- 10	Guanidine,cyano-, polymer with N-(2-aminoethyl)-1,2- ethanediamine	H302, H411
57-13-6 / 200-315-5		3 – 7	Urea	H316, H320
111-46-6 / 203-872-2		0.1 – 1.0	Diethylene Glycol	R22, H302
10377-60-3/ 233-826-7		< 0.1	Magnesium Nitrate	H314, H317, H318
26172-55-4/247-500-7		< 0.1	5-Chloro-2-methyl-3-isothiazolone	H317, H318
7786-30-3 / 232-094-6		< 0.1	Magnesium chloride	H315, H318
2682-20-4 / 220-239-6		< 0.1	2-Methyl-3-isothiazolone	H301, H311, H317, H318
3251-23-8 / 221-838-5		< 0.1	Cupric nitrate	Xi, C, H315, H319, H400

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation: P304, P340 Remove victim from exposure, to fresh air and keep at rest in a position for breathing

Skin contact: P302, 350, Remove contaminated clothing and shoes. Wash contaminated area thoroughly with soap and water

Eye contact: P305, P351; immediately flush eyes and under the eyelids with large amounts of water, and continue flushing for at least 15 minutes, or until material is removed.

Ingestion: P301, P330, P331; If swallowed, rinse mouth. Do not induce vomiting. Give large quantities of water.

4.1.1

Following Inhalation: P342; if breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available.

Following skin contact: P332, P313; Get medical attention if irritation develops and persists.

Following eye contact: P337, P313; if irritation persists, seek medical attention.

Following Ingestion: P301, P310; notify poison control center or hospital. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Over – exposure signs / symptoms

Ingestion: No data available.

Inhalation: No data available

Skin sensitization: No data available.

4.3 Indication of any immediate medical attention and special treatment needed.

Notes to physician: Treat symptomatically.

SECTION 5: FIRE – FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media: Use carbon dioxide, foam, dry chemical or water spray.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

In the event of fire, high temperatures or by reaction of incompatible materials the following may be generated as products of combustion: dense smoke, carbon monoxide, other oxides and irritating gases.

5.3 Advice for fire-fighters:

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Water may be used to cool containers exposed to heat or flame.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Move leaking containers to ventilated area.

Wear chemical resistant gloves, safety glasses or goggles and protective clothing.

6.2 Environmental precautions:

Prevent spilled material from entering the ground, water and / or air by using appropriate containment methods. Do not flush into surface water or sanitary sewer system. Refer to protective measures listed in Sections 7 and 8.

Dispose of according to local, state and Federal regulations. Do NOT flush to sewer, drains or waterways.

Advise water authority if spillage has entered into water course or drainage system

6.3 Methods for containment and cleaning up:

6.3.1 Control large spills. Dike large spills. Move containers from spill area. Ventilate area. Contain and collect spillage with non-combustible absorbent material such as vermiculite, sand etc. and place in a

suitable container for disposal. Clean contaminated surface thoroughly. .

Small spills: Stop leak and ventilate area. Absorb spills with non-combustible absorbent material such as vermiculite, sand etc. and place in a suitable container for disposal. Dispose of according to local, state and Federal regulations.

6.4 Reference to other sections: Refer to section 5.2 of the SDS.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

7.1.1 Protective measures: Ensure good ventilation to maintain concentrations below the specific exposure or flammable limits. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Consumption of food and beverages should be avoided in work areas.

7.2 Conditions for safe storage, including incompatibilities.

Keep containers tightly closed in a dry and well-ventilated area. Keep away from oxidizing agents and strong acid materials.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Exposure Guidelines

<u>Material</u>	<u>CAS #</u>	<u>Exposure Limits</u>	<u>Basis</u>
No exposure guidelines for product.			

Immediately Dangerous to Life or Health Concentrations (IDLH)

None

8.2: Engineering measures

Ventilation Requirements: Adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specific exposure or flammable limits. Handle only in places equipped with local exhaust or other appropriate exhaust recommendations.

Personal protective equipment

Protective measures: Ensure that eye flushing /eye wash stations and safety showers are located and accessible to work place area.

Respirator: Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations.

Skin / Hand Protection: Use gloves when handling products. Long sleeved clothing and or chemical resistant apron for protection when handling product. Always wash hands and face with soap and water before eating, drinking, and smoking. Safety showers are recommended.

Eye Protection: If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof tightly fitting safety glasses or goggles. Eye wash stations are recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Clear Liquid

Color: Amber

Odor: Soapy

pH: 6.9

Melting point/ freezing point: No information available

Boiling point / Range: 212 °F (100 °C)

Flashpoint: 482 °F (250 °C)

Evaporation Rate: No Data available

Flammability (solid/ gas): Not flammable

Upper/ lower flammability explosion limits: Not determined

Vapor Pressure (mm Hg @ 68°F): Not determined

Vapor Density (Air = 1): No information available

Relative Density (H₂O = 1): 1.0312

Solubility in Water: Soluble

n- Octanol/ Water: Not determined

Auto-ignition temperature: Product is not self igniting

Decomposition temperature: No data available

Viscosity, dynamic: Not determined

Explosive properties: Not determined

Oxidizing properties: Not determined

9.2 Other Information

Material Density: 8.588

VOC: 5.32

% volatile: No data available

SECTION 10: STABILITY AND REACTIVITY INFORMATION

10.1 Reactivity: Stable under recommended storage conditions.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: Decomposition may occur on exposure to hazardous conditions or incompatible materials.

10.4 Conditions to avoid: None known based on information supplied.

10.5 Incompatible materials: Avoid strong oxidizing agents, acids and strong bases.

10.6 Hazardous Decomposition Products: CO₂, CO, and nitrogen oxides (NO_x) may be generated as products of combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Product Information May cause eye and skin irritation

LD50 Oral Value 14626.43 mg/kg (rat) estimated

Water : Oral LD50 90090 mg/kg (rat) Dermal LD50: No Information LC50 Inhalation: No Information

Urea: Oral LD50 (rat) : 8471 mg/kg

Diethylene Glycol: Oral LD50 (rat) : 12565 mg/kg Dermal LD50: (rabbit) 11890 mg/kg

Magnesium nitrate: Oral LD50 (rat): 5440 mg/kg



5-Chloro-2-methyl-3-isothiazolone: Oral LD50 (rat): 481 mg/kg, Dermal LD50(rat): > 1008 mg/kg,
Inhalation LC50: 1.23 mg/L (rat) 4 h
Magnesium chloride Oral LD50 (rat): 2800 mg/kg
2-Methyl-3-isothiazolone Oral LD50 (rat): 53 mg/kg
Cupric nitrate Oral LD50(rat): 794 mg/kg

Carcinogenicity:

IARC: No component of this product presents at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC (International Agency for Research on Cancer).

OSHA: No component of this product presents at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA (Occupational Safety and Health Administration).

NTP: No component of this product presents at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP (National Toxicology Program).

ACGIH: No component of this product presents at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by ACGIH (American Conference of Governmental Industrial Hygienists).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No data available on complete product or components.

12.2 Persistence and degradability: No data available on complete product or components.

12.3 Bioaccumulative potential: No data available on complete product or components.

12.4 Mobility in soil: No data available on complete product or components.

12.5 Results of PBT and vPvB assessment: No data available on complete product or components.

12.6 Other adverse effects: No known adverse effects. on complete product or components.

Chemical Name

Urea : Toxicity to fish: LC50: 16200-18300 mg/L Poecilia reticulata 96 h

Toxicity to Microorganisms EC50= 23914 mg/L 5 min , Daphnia Magna (water flea) EC50: 3910 mg/L (48 h static)
Daphnia magna EC50; > 10000 mg/L (24 h) Daphnia magna straus

Diethylene glycol : Toxicity to fish: LC50: 75200 mg/L (96h flow –through) Pimephales promelas

Toxicity to Microorganisms EC50= 29228 mg/L 15 min, Daphnia Magna (water flea) EC50: 84000 mg/ L (48h) Daphnia magna

5-Chloro-2-methyl-3-isothiazolone:

Toxicity to Algae: EC50; 0.31 mg/L Anabaena flos-aquae 120 h EC50: 0.11 – 0.16 mg/L Pseudokirchneriella subcapitata 72 h static EC50: 0.03 – 0.13 mg/L Pseudokirchneriella subcapitata 96 h static

Toxicity to fish: LC50: 1.6 mg/ L (96h semi-static) Onocorhyncus my kiss

Toxicity to Microorganisms: EC50= 5.7 mg/ L 16 h, Daphnia Magna (water flea) EC50: 0.12 – 0.3 mg/ L (48h Flow through) Daphnia magna, EC50: 0.71 – 0.99 mg/L 48h Static) Daphnia magna, EC50: 4.71 mg/ L (48h) Daphnia magna

Magnesium chloride:

Toxicity to Algae; EC50: 2200 mg/L (72h) Desmodesmus subspicatus

Toxicity to Fish: LC50: 1970- 3880 mg/ L (96 h static) Pimephales promelas LC50: 4210 mg/ L (96h static) Gambusia Affinis

Toxicity to Microorganisms: EC50= 26140 mg/L 1 h, EC50= 36300 mg/L 30min., EC50= 77200 mg/ L 24 h

Daphnia Magna (Water flea) EC50: 140 mg/l (48h static) Daphnia magna EC50: 1400mg/ L (24h) Daphnia magna

<u>Chemical Name</u>	<u>Log Pow</u>
Urea	- 1.59
Diethylene glycol	- 1.98
5-Chloro-2-methyl-3-isothiazolone	- 0.75

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method: If recycling as ink is not possible, material may be incinerated or land filled at a licensed facility in accordance with local, state, and federal regulations. Waste shall not be disposed of into sewer system, drains, and waterways or into the environment.

13.1.1 Product/ Packaging disposal: Empty containers or liners may retain some product residue, dispose of in accordance to state, local and Federal regulations. The hazard and precautionary statements displayed on the label also apply to any residues left in the container. Do not re-use empty containers.

Waste codes/ waste designations according to LoW: * If discarded in its original unused form, this product does **NOT** exhibit the characteristics of a RCRA hazardous waste as defined under 40CFR261.

SECTION 14: TRANSPORT INFORMATION

US DOT (Ground): Not Regulated
14.1 UN number: Not applicable
14.2 UN Proper Shipping Name: Not Hazardous Liquid
14.3 Transport hazard class: Not applicable
14.4 Packing Group: Not applicable
14.5 Environmental hazards Not applicable:

IMDG (Sea): Not Regulated
 UN number: Not applicable
 UN Proper Shipping Name: Not Hazardous Liquid
 Transport hazard class: Not applicable
 Packing Group: Not applicable
 Environmental hazards Not applicable
 Marine Pollutant: No data available

ICAO/ IATA (Air): Not Regulated
 UN number: Not applicable
 UN Proper Shipping Name: Not Hazardous Liquid
 Transport hazard class: Not applicable
 Packing Group: Not applicable
 Environmental hazards Not applicable

RID (Rail): Not Regulated
ADR (Road): Not Regulated
AND (Inland Waterways): Not Regulated

MARPOL 73/78: No data available

SECTION 15: REGULATORY INFORMATION

National Fire Protection: IIIB



Association (NFPA) Classification: Health:1 Fire:0 Reactivity:0

HMIS Classification: Health hazard: 1
Flammability: 0
Reactivity: 0
Personal Protective Equipment= C: Safety glasses, Gloves, Apron

OSHA Hazards: This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

U.S. Federal Regulations

SARA Title III Section 313: This product does Not contain(s) toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1086 and 40CFR part 372.

Emergency Planning Community Right – To- Know (EPCRA)

Section 302 – Extremely hazardous substances: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 311/312 – Hazard Categories: Pursuant to Section 311/312 of SARA Title III, the physical and health hazard categories for this product are identified below:

Fire Hazard – No
Sudden Release of Pressure Hazard – No
Reactivity Hazard – No
Immediate (acute) Health Hazard – YES
Delayed (chronic) Health Hazard – No

CERCLA Reportable Quantity: This product does not contain material that exceeds the Calculated RQ attainable upper Limit.

SARA 302 Reportable Quantity: This product does Not contain any components with a SARA 302 RQ.

SARA 304 Reportable Quantity: This product does Not contain any components with a section 304 EHS RQ.

Hazardous Air Pollutants: This product does Not contain HAPs at 1% or greater.

U.S. State Regulations

RI= Rhode Island Right –To- Know List
NJ= New Jersey Right – To- Know List

MA= Massachusetts Right -To – Know List
PA= Pennsylvania Right- To- Know List

<u>Materials</u>	<u>CAS#</u>	<u>PA</u>	<u>NJ</u>	<u>RI</u>	<u>MA</u>
Diethylene glycol	111-46-6	X		X	
Magnesium nitrate	10377-60-3	X	X	X	X

California Proposition 65:

This product does not intentionally contain any chemicals known by the state of California to cause cancer and/or reproductive harm. Moreover, Gans Ink and Supply Co., Inc. does not routinely analyze its products for impurities which may be such chemicals.

International Inventories

TSCA Complies
DSL Complies
EINECS/ ELINCS Does not comply
ENCS Does not comply
IECSC Complies



KECL Complies
PICCS Complies
AICS Complies

WHMIS Classification: Non controlled

SECTION 16: OTHER INFORMATION

Hazard Symbols:

X: Irritant
Xn: Harmful

Hazard statements

H316: Causes skin irritation
H320: Causes eye irritation
H 305: May be harmful if swallowed
H335: May cause respiratory irritation

Risk Phrases:

R22: Harmful if swallowed
R36/37/ 38: Irritating to eyes, skin and respiratory

Origination Date: 5-27-2014

The information herein is presented in good faith, based on the data available to us and is believed to be correct as of the date hereof. However, Gans Ink and Supply Co., Inc. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Gans Ink and Supply Co., Inc. assumes no responsibility for any damages of any nature directly or indirectly resulting from the use of or reliance upon the information contained herein. Users must make their own determination as to the suitability of the product for their purpose prior to use. In accordance with good practices of personal cleanliness and hygiene, handle with due care and avoid unnecessary contact with this product.

C

Safety Glasses
Gloves
Apron

