

Groundwood Pen B

SDS Number: 211

Revision Date: 8/29/2019

1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

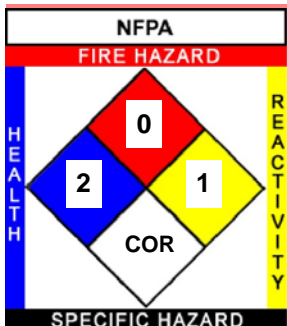
AmChem Enterprises, Inc.
P.O. Box 46707
St. Louis, MO 63146

Contact: AmChem Enterprises, Inc.
Phone: (314) 567-6776 // (800) 732-2436
Fax: (314) 567-5780 // (800) 891-2436
Email: SBaum@AmChemEnt.com
Web: www.amchement.com

Product Name: Groundwood Pen B
Revision Date: 5/2/2015
Version: 1.00
SDS Number: CAS 211
Number: Product MIXTURE
Code: Chemical C-001B
Family: Chemical Acid / Indicator Mixture
Formula: Product *** PROPRIETARY ***
Use: Test pen for detecting groundwood in paper
Emergency Phone: (800) 219-1307

2 HAZARDS IDENTIFICATION

NFPA: Health = 2, Fire = 0, Reactivity = 1
HMIS III: H2/F0/PH1



HMIS III	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARDS	1
PERSONAL PROTECTION B I Safety Glasses, Gloves	

PERSONAL PROTECTION INDEX					
A		G			
B		H			
C		I			
D		J			
E		K			
F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions		
A	n	O	P	q	r
t	U	W	Y	Z	
Additional Information					

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GHS Signal Word:

DDANGER

GHS Hazard Pictograms:



GHS Classifications:

- DPhysical, Corrosive to Metals, 1
- DHealth, Acute toxicity, 3 Oral
- DHealth, Acute toxicity, 3 Dermal
- DHealth, Skin corrosion/irritation, 1 B
- DHealth, Acute toxicity, 3 Inhalation
- DHealth, Specific target organ toxicity - Single exposure, 3

GHS Phrases:

- DH290 - May be corrosive to metals
- DH301 - Toxic if swallowed
- DH311 - Toxic in contact with skin
- DH314 - Causes severe skin burns and eye damage
- DH331 - Toxic if inhaled
- DH335 - May cause respiratory irritation

GHS Precautionary Statements:

- DP234 - Keep only in original container.
- DP260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- DP262 - Do not get in eyes, on skin, or on clothing. DP264 - Wash skin thoroughly after handling.
- DP270 - Do not eat, drink or smoke when using this product.
- DP271 - Use only outdoors or in a well-ventilated area.
- DP280 - Wear protective gloves/protective clothing/eye protection/face protection.
- DP301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- DP301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- DP303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- DP304+312 - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
- DP304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- DP305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- DP309+311 - IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.
- DP321 - Specific treatment (see supplementary first aid instructions on this label).
- DP361 - Remove/Take off immediately all contaminated clothing.
- DP363 - Wash contaminated clothing before reuse.
- DP404 - Store in a closed container.
- DP405 - Store locked up.
- DP501 - Dispose of contents/container to an approved waste disposal plant.

Diagnostic tool containing chemical test reagents. While the liquid contained in this test pen is hazardous, the design and normal use of this pen will contain the liquid and minimize potential exposure. Contains Hydrochloric acid. May cause irritation and burns to skin, eyes and respiratory tract. Avoid contact with skin, eyes and mucous membranes. Do not inhale

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fumes or use pen near the face.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	I	Percentage	I	Chemical Name
N/A	I	>80%	I	Proprietary, non-hazardous, non-regulated
7647-01-0	I	<20%	I	Hydrochloric acid
N/A	I	0.44%	I	Trade Secret*

*The specific chemical identities of the ingredients of this mixture labeled as "Trade Secret" are considered to be proprietary and are withheld in accordance with the provisions of 29CFR1910.1200 Sect. (i) Trade Secrets.

4 FIRST AID MEASURES

- Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. Seek immediate medical attention.
- Skin Contact:** Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Seek immediate medical attention.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. Seek immediate medical attention. Continue rinsing eyes during transport to hospital.
- Ingestion:** Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see Section 2) and/or Section 11. Absorption of this product into the body leads to the formation of methemoglobin which in sufficient concentration can cause cyanosis. Onset may be delayed 2-4 hours or longer. Exposure to and/or consumption of alcohol may increase toxic effects including headache, unconsciousness, cough, chest pain, difficulty breathing, drowsiness, nausea, cyanosis, ataxia and vomiting. This product is readily absorbed by inhalation, ingestion or skin absorption.

Indication of any immediate medical attention and special treatment needed:

No data available.

5 FIRE FIGHTING MEASURES

- Flammability:** Not flammable
- Flash Point:** DNA
- Flash Point Method:** DNA
- Burning Rate:** No data available
- Autoignition Temp:** No data available
- LEL:** No data available
- UEL:** No data available

Extinguishing Media:

Water Spray

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Water Fog
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Carbon Oxides
Hydrochloric acid gas
Nitrogen Oxides (NOx)

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.
Use water spray to cool unopened containers.
Liquid reagent itself is not flammable, but pen barrels may become fuel for fire upon melting.
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.
See Section 13 for disposal information.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment including vapor respirator.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Stay upwind of spilled material.
Treat any fumes as toxic.

Environmental Precautions:

Prevent further release (leakage/spillage) if safe to do so.
Do not allow product to enter drains.
Do not allow to drain to environment.

Methods and Materials for Containments and Cleaning Up:

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Spills may be diluted with water and treated with a neutralizing agent like Sodium Bicarbonate to absorb/neutralize any spilled material.
Place contaminated material into suitable, closed containers for disposal.
Dispose of contaminated material according to Section 13.
After spillage has been collected, area may be flushed with water or wet-brushed.
Ensure adequate ventilation.

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 information on proper disposal.

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HANDLING AND STORAGE

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- Handling Precautions:** Avoid breathing vapors or mist.
Avoid contact with eyes, skin, or clothing.
Keep containers closed when not in use.
Do not expose containers to open flame, excessive heat, or direct sunlight.
Keep away from sources of ignition.
Do not smoke when using this product.
Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.
Ensure adequate ventilation.
- Storage Requirements:** Keep container tightly closed.
Do not store in direct sunlight.
Store away from strong bases, strong oxidizing agents, amines, Alkali metals, metals, metal acetylides, hexalithium disilicide, Fluorine, carbides, cyanides, picrates, Zinc iodide, azides and Phosphorous.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.
- Personal Protective Equip:** Eye/face protection:
When using material use safety glasses and gloves according to HMIS PP, B. Use of a vapor respirator according to HMIS PP, U is also highly recommended when working with material in areas with poor ventilation. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- Skin protection:
Handle with gloves made from PVC, Neoprene or Nitrile. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.
- Body Protection:
Chemically resistant safety glasses and gloves are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.
- Respiratory protection:
Use of a vapor respirator is recommended. Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.
- Control of environmental exposure:
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

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Component(s): Hydrochloric acid; Trade Secret
 CAS-No(s): 7647-01-0
 USA ACGIH (C/TLV): 2.0 ppm
 USA ACGIH (TWA/TLV): 3.0 mg/m³
 USA NIOSH (TWA/REL): 3.0 mg/m³
 USA NIOSH (C/REL): 5.0 ppm
 USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (C): 1.0 ppm
 USA OSHA Table Z-1 Limits for Air Contaminants - 1910.1000 (C): 5.0 ppm

Biological occupational exposure limits:

Contains no substances with biological occupational exposure limit values.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, yellow liquid	Odor:	Acrid
Physical State:	Liquid	Molecular Formula:	MIXTURE
Odor Threshold:	Not determined	Solubility:	100%
Particle Size:	Not determined	Softening Point:	Not determined
Spec Grav./Density:	1.060 g/ml (8.85 lbs/gal)	Percent Volatile:	> 99%
Viscosity:	Not determined	Heat Value:	Not determined
Sat. Vap. Conc.:	Not determined	Freezing/Melting Pt.:	0 °C (32 °F)
Boiling Point:	104 °C (218 °F)	Flash Point:	DNA
Flammability:	(solid, gas): Not flammable	Octanol:	Not determined
Partition Coefficient:	Not determined	Vapor Density:	(air = 1): Not determined
Vapor Pressure:	(mm Hg @ 25 °C): Not determined	VOC:	DNA
pH:	@ 100%: - 0.5	Bulk Density:	Not determined
Evap. Rate:	(N-Butyl Acetate = 1): Not determined	Auto-Ignition Temp:	Not determined
Molecular weight:	MIXTURE	UFL/LFL:	Not determined
Decomp Temp:	Not determined		

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities, flames, ignition sources.
Materials to Avoid:	Strong bases, strong oxidizing agents, amines, Alkali metals, metals, metal acetylides, hexalithium disilicide, Fluorine, carbides, cyanides, picrates, Zinc iodide, azides and Phosphorous.
Hazardous Decomposition:	Carbon Oxides, Hydrochloric acid gas and Nitrogen Oxides (NO _x).
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Hydrochloric acid; Trade Secret
 CAS No(s): 7647-01-0; N/A

Acute Toxicity:

LD50 Oral - Rat: 700 mg/kg

LD50 Dermal - Guinea Pig: > 500 mg/kg

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LC50 Inhalation - Rat: 3,124 ppm (1 h)

Skin Corrosion/Irritation: Rabbit skin - Causes burns.

Serious Eye Damage/Eye Irritation: Rabbit eyes - Corrosive to eyes.

Respiratory or Skin Sensitation: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or OSHA classification (Hydrochloric acid).

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: Overexposure may cause reproductive disorders based on tests with laboratory animals.

Specific Target Organ Toxicity - Single Exposure: Respiratory system - Respiratory tract irritant (single exposure, category 3).

Specific Target Organ Toxicity - Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: No data available.

Additional Information:

Component: Hydrochloric acid; RTECS: MW4025000

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ECOLOGICAL INFORMATION

Component(s): Hydrochloric acid; Trade Secret

CAS No(s): 7647-01-0; N/A

Toxicity:

Toxicity to fish:

LC50 - *Gambusia affinis* (Mosquito Fish): 282 mg/l (96 h)

LC50 - *Pimephales promelas* (Fathead Minnow): 85.7 - 142 mg/l (96 h)

LC50 - *Leuciscus idus* (Golden Orfe): 35 mg/l (48 h)

LC50 - *Danio rerio* (Zebra Fish): 87.6 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:

EC50 - *Daphnia magna* (Water Flea): 17.0 mg/l (48 h)

Toxicity to algae:

EC50 - Algae: 68.0 mg/l (24 h)

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Persistence and Degradability:

No data available.

Bioaccumulative potential:

Bioaccumulation - Danio rerio (Zebra Fish): 0.028 mg/l (96 h)

Bioconcentration Factor (BCF): 4.4

Mobility in Soil:

No data available.

Results of PBT and vPvB assessment:

Not required/conducted.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

The EPA Hazardous Waste Number is D002 due to the characteristic of Corrosivity.

Contaminated Packaging: Dispose of as unused product.

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TRANSPORT INFORMATION

DOT (US)

Non-regulated material, liquid*

IMDG

Non-regulated material, liquid*

IATA

Non-regulated material, liquid*

*No restrictions apply due to low volumes of <30 ml per compartment.

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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Hydrochloric acid (7647010 <20%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR

*Trade Secret (N/A 0.44%) ACUTERCRA, CERCLA, MASS, NJHS, OSHAPSM, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR, TXHWL

REGULATORY KEY DESCRIPTIONS

ACUTERCRA = RCRA Acute Hazardous Wastes (P-List)
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EHS302 = Extremely Hazardous Substance
EPCRAWPC = EPCRA Water Priority Chemicals
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
NJEHS = NJ Extraordinarily Hazardous Substances
NJHS = NJ Right-to-Know Hazardous Substances
OSHAPSM = OSHA Chemicals Requiring process safety management
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA311/312 = SARA 311/312 Toxic Chemicals
SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List

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OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that AmChem Enterprises, Inc. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of AmChem Enterprises, Inc.'s control, AmChem Enterprises, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

Preparation Information:

GHS Conversion Services
www.ghsconversionservices.com
(414) 336-2546