

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: DTG Pre-Treat™ Paper

Product Number: GTNPPLCS12x12, GTNPPDCS12x12, GTNPPLCS14x16, GTNPPDCS14x16

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Pretreatment for direct to garment printing applications

1.3 Details of the Supplier of the Safety Data Sheet

Supplier	Neenah Paper, Inc. 3460 Preston Ridge Road, Suite 600 Alpharetta, GA 30005 Telephone: +1 678-518-3318 (during business hours 8-4 EST)
Email:	regulatory.affairs@neenah.com
SDS Date of Preparation:	05.03.2013

1.4 Emergency Telephone Number: +1 678-518-3318

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification:

Eye Damage Category 1
Acute Toxicity Oral Category 4

EU Classification:

Harmful (Xn) R22, R41

2.2 Label Elements

DANGER!



Contains: Calcium Nitrate Tetrahydrate and Diethylene Glycol

Hazard Phrases

H302	Harmful if swallowed.
H318	Causes serious eye damage.

Precautionary Phrases

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear eye and face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P330	Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P501	Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Chemical Name</i>	<i>CAS-No./ EINECS-No</i>	<i>%</i>	<i>EU Classification (67/548/EEC) / GHS Classification:</i>
Cellulose Pulp	Mixture	50-70	Not Hazardous
Calcium Chloride	10043-52-4 / 233-140-8	20-30	Xi R36 / Eye Irrit Cat 2 (H319)
Calcium Nitrate Tetrahydrate	13477-34-4 / 233-332-1	15-25	Xi R36/38 / Acute Tox Cat 4 (H302), Eye Dam Cat 1 (H318)
Diethylene Glycol	111-46-6 / 203-872-2	10-20	Xn R22 / Acute Tox Cat 4 (H302), STOT RE 3 (H373)
Isopropanol	67-63-0 / 200-661-7	1-3	F, Xi R11, R36, R67 / Flam Liq Cat 2 (H225), Eye Irrit Cat 2 (H319), STOT SE 3 (H336)
Non-Hazardous Ingredients	Proprietary	Balance	Not Hazardous

See Section 16 for further information on EU and GHS Classification.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation: None required for normal use.

Skin contact: None required for normal use.

Eye contact: Immediately flush eye(s) with plenty of water for at least 20 minutes while holding open eyelids open. Remove contact lenses if safe and easy to do. Get immediate medical attention.

Ingestion: Rinse mouth with water. If large amounts are swallowed or if you feel unwell, seek medical advice.

4.2 Most Important symptoms and effects, both acute and delayed: May cause severe eye irritation or eye damage. May be harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed: Get immediate medical attention in the case of eye contact.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Use media suitable for surrounding materials.

Unsuitable Extinguishing Media: None currently known.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Will burn under fire conditions.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide. Oxides of nitrogen.

5.3 Advice For Firefighters: No special precautions required

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency

Procedures: No special precautions required

6.2 Environmental Precautions: Prevent release to the environment. Comply with all local and national regulations.

6.3 Methods and Material for Containment and Cleaning Up: Pick up and place in a suitable container for use or disposal. Wash spill area thoroughly.

6.4 Reference to Other Sections: Refer to Section 13 for disposal advice.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid contact with eyes. Do not eat, drink, or smoke in the work area. Wear appropriate personal protective equipment (gloves, goggles or safety glasses with side shields, face shield) when working with this material.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store or in a cool, dry, well-ventilated place away from acids, bases, oxidizing agents, and reducing agents.

7.3 Specific end use(s): None currently known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure limit(s)
Calcium Nitrate Tetrahydrate	None established
Calcium Chloride	None established
Diethylene Glycol	10 ppm TWA DFG MAK 23 ppm TWA UK WEL
Isopropanol	400 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV, 400 ppm STEL ACGIH TLV 200 ppm TWA DFG MAK, 400 ppm STEL DFG MAK 400 ppm TWA UK WEL, 500 ppm STEL UK WEL 400 ppm Japan OEL
Cellulose Pulp	15 mg/m ³ TWA OSHA PEL (Total dust), 5 mg/m ³ TWA OSHA PEL (Respirable fraction) 10 mg/m ³ TWA ACGIH TLV 15 mg/m ³ TWA UK WEL (Total dust), 5 mg/m ³ TWA UK WEL (Respirable fraction)
Non-Hazardous Ingredients	None established

8.2 Exposure Controls:

Ventilation: Provide appropriate exhaust ventilation at places where exposures may be excessive or exposure limits may be exceeded.

Respiratory Protection: If the exposure limit is exceeded or for symptoms of overexposure, wear an appropriate NIOSH (or local authority) certified respirator.

Hand Protection: Wear appropriate gloves to prevent prolonged skin contact.

Skin Protection: Follow facility requirements.

Eye Protection: Wear safety goggles or glasses with a face shield to prevent eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance and Odour	Clear to white liquid saturated solid with a slight alcohol odor.
Boiling point/range	Not available

Melting point/range	Not available
Specific Gravity (water=1)	Not available
Vapor pressure	Not available
Vapor density (air=1)	Not available
Solubility	Not available
pH	Not available
Partition coefficient (n-octanol/water):	Not available
Evaporation Rate (Butyl acetate=1)	Same as water.
Percent Volatile by Volume (%)	Not available
Flashpoint:	Not applicable
Flammable Limits in Air % by Volume:	LEL (Lower):Not applicable UEL (Upper): Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive.

10.2 Chemical Stability: Stable at ambient temperature and pressure.

10.3 Possibility of Hazardous Reactions: Avoid heat, sparks, and open flame.

10.4 Conditions to Avoid: Avoid freezing or excessive heat.

10.5 Incompatible Materials: Strong oxidizing agents, reducing agents, acids, and bases.

10.6 Hazardous Decomposition Products: Carbon monoxide, carbon dioxide. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Inhalation: None expected. High concentrations may cause drowsiness or dizziness.

Skin contact: Prolonged contact may cause irritation.

Eye contact: May cause severe eye irritation and burns. Corneal injury is possible.

Ingestion: May be harmful if swallowed.

Chronic toxicity: None currently known.

Medical Conditions Aggravated by Exposure: None currently known.

Acute Toxicity Values: Product: Calculated Oral LD50 (rat) 1538 mg/kg

Irritation: May cause severe eye irritation. May cause slight skin irritation.

Corrosivity: May be corrosive to eyes.

Sensitisation: Not expected to be a sensitizer.

Repeat Dose Toxicity: No adverse effects expected.

Mutagenicity: No data available

Carcinogenicity Data: None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA or the European Directive (67/548/EEC).

Reproductive Toxicity: No adverse effects on reproduction are known.

12. ECOLOGICAL INFORMATION

12.1 Aquatic Toxicity: No data is currently available.

The liquid used to impregnate the wipe is not classified as dangerous to the environment and is readily biodegradable and unlikely to accumulate in the aquatic environment.

12.2 Persistence and Degradability: No data currently available.

12.3 Bioaccumulative Potential: No data currently available.

12.4 Mobility in Soil: No data currently available.

12.5 Results of PBT and vPvB Assessment: None required.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Dispose of contents/container in accordance with all local and national regulations.

14. TRANSPORT INFORMATION

IATA Shipping Description (Air): Not regulated

IMDG Shipping Description (Vessel): Not regulated

ADR Shipping Description: Not regulated

This product does not contain marine pollutants.

Special Precautions for User: None currently known.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not regulated

15. REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

US Regulations

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: Not applicable

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None.

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations

Canadian WHMIS Classification: D-2-A.

Canadian DSL Status: One or more of the ingredients of this product is not listed on the DSL or has a quantity limitation.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

EU EINECS Status: All of the components of this product are listed on the EINECS Inventory or exempted from notification.

JAPANESE REGULATIONS

Industrial Safety and Health Law:

Manufacture Prohibited	Manufacture Allowed	Notification Obligation	Labeling Obligation	MSDS Obligation	Dangerous Substance
Not applicable	Not applicable	Not applicable	≥1 Isopropanol	≥0.1 Isopropanol	Not applicable

Poisonous and Deleterious Substances Control Law (PDSCL): None of the chemicals are listed.

Pollutant Release and Transfer Register (PRTP): None of the chemicals are listed.

Law Concerning the Protection of the Ozone Layer: None of the chemicals are listed.

Fire Service Law: Not applicable

Ship Safety Act: Not applicable

Aviation Law: Not applicable

Air Pollution Control Law: None of the chemicals are listed.

Water Pollution Control Act: None of the chemicals are listed.

Soil Contamination Countermeasures Law: None of the chemicals are listed.

Offensive Odor Control Law: None of the chemicals are listed.

Act on Prevention of Marine Pollution and Maritime Disaster: None of the chemicals are listed.

Chemical Safety Assessment: None Required

16. OTHER INFORMATION

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

F Highly Flammable

Xi Irritant

Xn Harmful

R11 Highly Flammable

R22 Harmful if swallowed.

R36 Irritating to the eyes.

R36/38 Irritating to eyes and skin.

R67 Vapors may cause drowsiness and dizziness.

GHS Phrases for Reference (See Section 2 and 3):

Acute Tox Cat 4 Acute Toxicity Category 4

Eye Dam Cat 1 Eye Damage Category 1

Eye Irrit Cat 2 Eye Irritant Category 2

Flam Liq Cat 2 Flammable Liquid Category 2

STOT RE 3 Specific Target Organ Toxicity Repeated Exposure Category 3

STOT SE 3 Specific Target Organ Toxicity Single Exposure Category 3

H225 Highly flammable liquid and vapor

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage through prolonged or repeated exposure.

HMIS Rating: Health 3 Fire 1 Reactivity 0

Revision Summary: New SDS

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