

MATERIAL SAFETY DATA SHEET

Section 1: Identification of the Substance/Preparation and the Company/Undertaking

Product Name: CF Indicator Spray

Manufacturer: Appleton Papers Inc.
825 East Wisconsin Avenue
Appleton, WI 54911 USA

Information Phone: 920-991-8875
Emergency Phone: 800-424-9300 (Chemtrec) 1-703-527-3887 for international calls
E-mail: ehsps@appletonideas.com
Date of Preparation/Revision: 07/13/11
Product Use: Colorformer for use with Carbonless NCR Paper.

Section 2: Hazards Identification

Emergency Overview

Extremely Flammable Aerosol! Vapors may cause flash fire. Contents under pressure. Heated can may rupture. Eye irritant. Inhalation may cause headache, dizziness, drowsiness, nausea, narcosis and unconsciousness. Repeated or prolonged overexposure to contents may cause skin irritation. Intentional misuse such as deliberate concentration and inhalation of vapors may be harmful or fatal.
Refer to Section 11 for additional information.

Product Description: Clear liquid packaged as an aerosol spray.

US OSHA Classification (29CFR1910.1200): Flammable, Irritant, Pressure
Canadian WHMIS Classification: Class B-5 (Flammable Aerosol), Class D-2-B (Eye Irritant)
EU Classification (1999/45/EC): Xi Irritant, F+ Extremely Flammable, R12, R36, R66, R67
Refer to Section 16 for Full Text of EU Classes and R Phrases

Section 3: Composition / Information on Ingredients

Component	CAS/EINECS Number	Amount	EU Classification (67/548/EEC)
Acetone	67-64-1 / 200-662-2	70-81%	F, Xi, R11, R36, R66, R67
Propane	74-98-6 / 200-827-9	15-21%	R12
n-Butane	106-97-8 / 203-448-7	5-8%	R12
Blue Dye	Proprietary	<1%	None

Refer to Section 16 for Full Text of EU Classes and R Phrases

Section 4: First Aid Measures

Eyes: Remove contact lenses if present. Flush eyes thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing before reuse. If irritation develops, seek medical attention.

Ingestion: Unlikely route of exposure with an aerosol container. If swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT induce vomiting due to aspiration hazard. Rinse mouth with a small amount of water. Never induce vomiting or give diluents to someone who is unconscious, having convulsions, or who cannot swallow.

Inhalation: Move person to fresh air. Seek medical attention if irritation or other symptoms persist.

Section 5. Fire Fighting Measures

Extinguishing Media: Use foam, carbon dioxide, or dry chemical. Water may be ineffective, however, water can be used to cool fire-exposed containers and dilute spills to non-flammable mixtures.

Unusual Fire and Explosion Hazards: Extremely flammable aerosol. Propellant gases and product vapors may ignite explosively and cause flash fire. Vapors are heavier than air and can travel along surfaces to a remote ignition source and flash back. Aerosol cans may burst in the heat of fire.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Fight fire from a safe distance. Protect against rupturing cans.

Hazardous Combustion Products: Burning may produce carbon dioxide, carbon monoxide and nitrogen oxides.

Section 6: Accidental Release Measures

Eliminate all ignition sources. Ventilate area. Wear appropriate protective clothing and equipment (See Section 8). Contain and collect spill with inert materials such as commercial absorbent, sand or earth and place in appropriate, labeled container for hazardous waste disposal. Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.

Refer to Section 13 for disposal information.

Section 7: Handling and Storage

Handling: Prevent prolonged or repeated breathing vapors, mists and aerosol spray. Use only with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wear appropriate protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area.

Prevent buildup of vapors. Use only as directed. Keep away from heat, sparks, flames and all other sources of ignition. Do not smoke while using product or until all vapors have dissipated.

Storage: Store product below 120°F (48°C) in a cool; dry, well ventilated place away from direct sunlight, excessive heat and incompatible materials. Do not puncture or incinerate containers.

Section 8. Exposure Controls / Personal Protection

Exposure Limits:

Component	Exposure Limit	Source
Acetone	500 ppm Time Weighted Average	ACGIH
	750 ppm Short Term Exposure Limit	ACGIH
	1000 ppm Time Weighted Average	OSHA
	500 ppm Time Weighted Average	DFG MAK
	500 ppm Time Weighted Average	UK OEL
	1500 ppm Short Term Exposure Limit	UK OEL
Propane	1000 ppm Time Weighted Average (as an aliphatic hydrocarbon gas)	ACGIH
	1000 ppm Time Weighted Average	OSHA
	1000 ppm Time Weighted Average	DFG MAK

n-Butane	1000 ppm Time Weighted Average (as an aliphatic hydrocarbon gas) 1000 ppm Time Weighted Average 600 ppm Time Weighted Average 750 ppm Short Term Exposure Limit	ACGIH DFG MAK UK OEL UK OEL
Blue Dye	None established	

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain concentration of hazardous constituents below recommended limits. Use explosion proof equipment where required.

Respiratory Protection: Not necessary if workplace concentrations of hazardous constituents are below recommended limits. If the exposure limit is exceeded, an approved respirator should be worn. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2, applicable country regulations and good Industrial Hygiene practice.

Eye Protection: Safety glasses or goggles recommended.

Skin Protection: Impervious gloves such as nitrile recommended where contact is likely. Wear protective clothing as required to avoid prolonged or repeated skin contact when handling.

Section 9. Physical and Chemical Properties

Appearance and Odor: Clear liquid packaged as an aerosol spray with a mint-like odor.

Solubility in Water:	Insoluble	Boiling Point:	<0 to 350°F (-18 to 177°C)
pH:	Not Applicable	Melting Point:	Not Applicable
Specific Gravity:	0.71	Vapor Density:	2.0 (acetone)
Evaporation Rate:	Faster than ether	Vapor Pressure:	180 mmHg @ 20°C (acetone)
Partition Coefficient:	Not Available	Flash Point:	<0°F (-18°C)
Autoignition Temperature:	399°F (204°C)	Explosive Limits:	LEL: 1.6% (n-butane) UEL: 12.8% (acetone)
Aerosol Fire Protection Level:	Level 3 (NFPA 30B)		

Section 10. Stability and Reactivity

Stability: Stable.

Incompatibility: Avoid excessive heat, strong oxidizers, acids, bases, chlorine compounds, potassium t-butoxide.

Hazardous Decomposition Products: Products of combustion include carbon dioxide, carbon monoxide and nitrogen oxides.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Health Hazards

Inhalation: Inhalation of high concentrations may produce eye and respiratory irritation and central nervous system effects including headache, dizziness, nausea, incoordination, muscular weakness, depressed respiration and heart rate, and unconsciousness. Overexposure to the propellant may cause heart rhythm irregularities, shortness of breath, unconsciousness or death. Intentional misuse such as deliberate concentration and inhalation of vapors may be harmful or fatal.

Skin Contact: May cause irritation, seen as localized reddening and swelling.

Eye Contact: Liquid or vapors may be irritating, causing tearing, reddening and swelling accompanied by a stinging sensation.

Ingestion: This is an unlikely route of exposure with an aerosol product. Swallowing large amounts may cause central nervous system depression and irritation of the mouth and gastrointestinal tract resulting in nausea, vomiting and diarrhea. Aspiration into the lungs may occur during ingestion or vomiting, resulting in severe lung injury.

Chronic Health Effects: Prolonged or repeated skin contact may cause dermatitis. Based on animal studies it is expected that prolonged or repeated overexposure to acetone may cause anemia, kidney effects and adverse reproductive effects such as reduced fertility.

Medical Conditions Aggravated By Exposure: Individuals with preexisting diseases of the heart or central nervous system may have increased susceptibility to the toxic effects of excessive exposure to the product's propellant.

Carcinogenicity: None of the components is listed as a potential carcinogen by IARC, NTP, OSHA or the EU Directive.

Mutagenicity: This product is not expected to present a risk of genetic damage.

Reproductive Toxicity: Acetone has been found to cause reduced fertility in experimental animals but is only toxic to the fetus at maternally toxic levels.

Acute Toxicity Values:

Acetone: LD50 Oral Rat: 5800 mg/kg, LC50 Inhalation Rat: 50100 mg/m³/8 hr

Propane: No data available

n-Butane: LC50 Inhalation rat 658 gm/m³/4H

Blue Dye: LD50 Oral Rat: >5000 mg/kg

Section 12. Ecological Information

This material is not expected to be toxic to aquatic life. Acetone readily biodegrades in the environment. Aquatic toxicity values for acetone are: LC50 Pimephales promelas 8,120 mg/L/96 hr, LC50 Bluegill sunfish 8.300 mg/L/96 hr.

Section 13. Disposal Considerations

Dispose in accordance with all local, state/provincial and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

Section 14. Transport Information

DOT Shipping Description: UN1950, Aerosols, 2.1

DOT Hazard Class: 2.1

UN Number: UN1950

DOT Labels Required (49CFR172.101): Flammable Gas

IATA Shipping Description: UN1950, Aerosols, flammable, 2.1

IATA Hazard Class: 2.1

ID Number: UN1950

IATA Hazard Labels Required: Flammable Gas

IMDG Shipping Description: UN1950, Aerosols, 2.1, FP <-18C

IMDG Hazard Class: 2.1

UN Number: UN1950

IMDG Hazard Labels Required: Flammable Gas

Section 15. Regulatory Information

United States Regulations:

OSHA Status: Hazardous – a MSDS is required for this product.

EPA SARA Regulations:

SARA 311/312 Hazard Categories:

- Y – Fire Hazard
- Y – Sudden Release of Pressure
- N – Reactivity
- Y – Acute Health
- N – Chronic Health

SARA 313: This does not contain chemicals above de minimus concentrations subject to the notification or reporting requirements of SARA 313.

CERCLA Section 103: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for this product, based on the RQ for Acetone (81% maximum) of 5000 lbs, is 6,170 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

RCRA Status: This product, as sold, would meet the definition of a RCRA as a hazardous waste, Ignitable D001.

TSCA Status: All of the components of this product are listed on the EPA TSCA inventory.



California Proposition 65: This product does not contain chemicals regulated under California Proposition 65.

International Regulations:

Canadian Regulations:

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.



Canadian WHMIS Classification:

 	Class D - Division 2 - Subdivision B (Toxic material causing other chronic effects) Class B - Division 5 (Flammable Aerosol)
---	--

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

European Inventory of Existing Commercial Chemical Substances (EINECS): All of the ingredients are listed on the EINECS inventory.

European Community Labeling:

 <p>Extremely Flammable</p>	 <p>Irritant</p>	R12 Extremely Flammable R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. S16 Keep away from sources of ignition – no smoking. S23 Do not breathe spray/vapors. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S51 Use only in well ventilated areas. S60 This product and its container must be disposed of as
--	---	--

	<p>hazardous waste. Do not spray on naked flame or any incandescent material. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.</p>
--	---

Section 16. Other Information

NFPA RATING (NFPA 704) FIRE: 4 HEALTH: 2 REACTIVITY: 0

HMIS RATING FIRE: 4 HEALTH: 2 REACTIVITY: 0

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

- Xi Irritant
- F Flammable
- F+ Extremely Flammable
- F11 Flammable
- R12 Extremely Flammable
- R36 Irritating to eyes.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

Effective Date: 07/13/11

Supersedes Date: 11/20/07

Revision to Sections: Sections 2 and 15 WHMIS Classification

MSDS Number: API-CRP-003

This information is furnished without warranty, expressed or implied. It is accurate to the best knowledge of Appleton Papers, Inc. The data on this sheet is related only to the specific product designated herein. Appleton Papers, Inc. assumes no legal responsibility for the use or reliance upon these data.