

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Kleens-it Flexo Ink Cleaner – Part # 52020, 52045

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Kleens-It Flexo Ink Cleaner **PRODUCT USE:** Cleaner

MANUFACTURER: Lloyds Laboratories Inc. **SUPPLIER:** Lloyds Laboratories Inc.

ADDRESS: 613 Neal Drive,
Peterborough,
Ontario.
K9J 6X7 **ADDRESS:** 613 Neal Drive,
Peterborough,
Ontario.
K9J 6X7

EMERGENCY #: 1 800 361-6766 **EMERGENCY #:** 1 800 361-6766

SECTION II: INGREDIENT INFORMATION

Ingredients	CAS#	Wt%	OSHA-TWA	ACGIH-TWA	LD ₅₀
Alkylpolyglucoside	68515-73-1	1-5 %	Not Established	Not Established	5,000 mg/kg (Oral/Rat)
Sodium Gluconate	497-19-8	1-5 %	15 mg/m ³ total dust	15 mg/m ³ total dust	>2,000 mg/kg (Oral/Rat)
Sodium Metasilicate	6834-92-0	1-5 %	Not Established	Not Established	1,500-3,200 mg/kg (Oral/Rat)
Tetrasodium Iminodisuccinate	144538-83-0	1-5 %	Not Established	Not Established	>2,000 mg/kg (Oral/Rat)

SECTION III: HAZARDOUS IDENTIFICATION

Route of Entry: Eye, skin contact, ingestion.

Potential Health Effects:

Eyes: Causes irritation to the eyes.

Skin: Prolonged or repeated contact can cause irritation.

Inhalation: May cause nose, throat and respiratory tract irritation.

Ingestion: May cause irritation to mouth, esophagus and stomach. May cause gastric tract disorder and/or damage.

Chronic Effects:

Carcinogenicity: No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHMIS/OSHA criteria.

Teratogenicity, Mutagenicity, Reproductive Effects: The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471).

Skin: Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis.

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Kleens-it Flexo Ink Cleaner – Part # 52020, 52045

SECTION IV: FIRST AID MEASURES

Eye Contact:	Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.
Skin Contact:	Flush with water. Seek medical attention if irritation persists. Remove contaminated clothing and laundry before reuse.
Inhalation:	Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

SECTION V: FIRE FIGHTING MEASURES

Flammability:	Non flammable.
Flash Point deg (C,TCC):	Not applicable.
Means of Extinction:	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.
Special Fire Hazards:	Fire fighters should wear self contained breathing apparatus as for surrounding fire.
Autoignition Temperature:	Not applicable.
Flame Propagation or Burning Rate of Solid:	Not applicable.
Sensitivity to Static Discharge:	Not applicable.
Unusual Fire and Explosion Hazards:	None expected. As per surrounding fire.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures:	Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.
-----------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

SECTION VII: HANDLING AND STORAGE

Storage Requirements:	KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include alkalis, oxidizing materials, reducing sugars and Ammonia Salts. Storage temperature 4C Ambient to 35 C (must be stored above 4 C at all times). Transport temperature 4C Ambient to 35 C (must be stored above 4 C at all times). Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame.
------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Kleens-it Flexo Ink Cleaner – Part # 52020, 52045

Do not reuse empty containers.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Impervious gloves are recommended.
Eye Protection: Splash goggles are recommended.
Respiratory Protection: Not normally required if good ventilation is maintained.
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation normally required

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (deg C):	100	Specific Gravity (H₂O = 1):	1.02-1.03	Evaporation Rate (water=1):	Similar
% Volatile (Wt%):	> 90 %	Solubility in water:	Complete	pH (as supplied):	8.0-9.0
Physical State:	Liquid	Viscosity:	Water like	VOC:	0.0 %
Appearance / Odour:	Transparent clear blue colour with typical odour				

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable.
Incompatible Materials: Strong oxidizing agents, strong acids and alkalies.
Hazardous Decomposition Products: Oxides of carbon, Oxides of Nitrogen when heated.

SECTION XI: TOXICOLOGICAL INFORMATION

See Section II for LD 50 for individual components.

SECTION XII: ECOLOGICAL INFORMATION

Biodegradability: All organic ingredients are biodegradable as per Ready Biodegradability Closed bottle test (OECD 301 D, also known as the US EPA as OPPTS 835.3100 (Fate, Transport and Transformation Test Guidelines.) and as such full formulation would be expected to be the same.
Alkylpolyglucoside: Fish, acute toxicity test, OECD203: 96 Hr LC50:70.7 (rainbow trout).
Sodium Gluconate: Fish 96h LC 50 >1000.0 mg/L, Daphnia 48 h LC50 >1000.0 mg/L. No bioconcentration in aquatic organisms and rapid biodegradation/disappearance in the environment ie 40% in 5 days.
Sodium Metasilicate Fish 96 hr LC 50 >2,320 mg/L Daphnia 96 hr LC 50 -247 mg/L.

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Kleens-it Flexo Ink Cleaner – Part # 52020, 52045

Tetrasodium Iminodisuccinate Daphnia 96 hr LC 50- 98.5 mg/L.

This formulation has low aquatic toxicity.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Not regulated.

D.O.T. Classification: Not regulated.

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety

Regulations:

WHMIS Class:

Class D Division 2B.

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations.

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical

None of these ingredients are listed.

Release Reporting) 40 CFR 372:

CERCLA – Section 102 (Reportable

None of the ingredients are listed.

Quantity) 40 CFR 302:

RCRA 40 CFR 261 (Subpart D):

None of the ingredients are listed.

CLEAN WATER ACT – Section 311

None of these ingredients are listed.

(Reportable Qty) 40 CFR 116:

CLEAN AIR ACT – Section 312 (List of

None of these ingredients are listed.

Hazardous Pollutants) 40 CFR 63 (Subpart

C):

National Pollutant Release Inventory:

None of these ingredients are listed.

Toxic Substances Control Act (TSCA):

All ingredients are registered on the Chemical Substances Inventory.

Canadian Domestic Substance List (DSL):

All ingredients are registered on the DSL.

SECTION XVI: OTHER INFORMATION

Date: June 7, 2016	Prepared By: Technical Services Group	Telephone: 1 800 361-6766
---------------------------	----------------------------------------------	----------------------------------

Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Kleens-it Flexo Ink Cleaner – Part # 52020, 52045

made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST in Montreal, Quebec (514-873-3990).