



Thermal Printer Cleaning Card

MSDS

MATERIAL SAFETY DATA SHEET

Product Name : Thermal Printer Cleaning Card - Pre-saturated With Alcohol Free Cleaner

Product Number : TPCC-400006-AF

General Use : Technical Cleaning

Product Description : Thermal Printer Cleaning Card Pre-Saturated with iClean Crystal Polish Cleaner

SECTION I - Manufacturer's Name & Address

MEDITECH TECHNOLOGY CO., LTD.

226 Xinpo Road, Potoubei, Ailian Community,

Longcheng Street, Longgang District,

Shenzhen, 518172

Guangdong Province, China

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Date Prepared : December, 2014

Complies with OSHA's Hazard Communication

Standard 29 CFR 1910.1200

SECTION II - Composition of the Products

Ingredients	CAS-Nr	Content	Symbol	R- phrases
Mixture of nonionic surfactants and glycol-ethers				
Poly(oxy-1,2-ethanol), -undecyl- -hydroxy-, verzweigt und linear	127036-24-2	< 5,0 %	Xn	R22 - R41
3-Butoxy-2-propanol	5131-66-8	< 5,0 %	Xi	R36 / 38

In accordance to the new European Regulation on Detergents EC No. 648/2004

USA: all components are listed on the TSCA Chemical Substance Inventory.

SECTION III - Hazardous Identification

3.1 Hazard Description : Not Requested

3.2 Information pertaining to particular dangers for man and environment

None Mild eye-irritant

None of the ingredients are regulated or listed as potential cancer agents by US-federal OSHA, NTP, or IARC.



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SECTION IV - First Aid Measures

General Information	Remove contaminated cloth.
After inhalation	No special requirements requested
After skin contact	Wash with water, rinse thoroughly.
After eye contact	Rinse opened eyes for several minutes under running water.
After swallowing	Rinse out mouth and then drink plenty of water.

SECTION V - Fire Fighting Measures

Suitable extinguishing agents	Since the product is not combustible or flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire.
For safety reasons unsuitable extinguishing agents	None
Special hazards caused by the material, its products of combustion or resulting gases	None
Special requirement for fire-fighting equipment	Since the product is not combustible or flammable, if involved in a fire, use protecting equipment

SECTION VI - Accidental Release Measures

Person-related safety precautions:	Change contaminated cloth. Avoid longer direct contact with skin or eyes.
Precautionary measures for environment	Recover usable material by convenient method. If necessary, unrecoverable material may be washed to drain with large quantities of water. Higher quantities of concentrated product may disturb the osmosis capabilities of roots from plants.
Procedures for cleaning / waste disposal	As the product is fully water soluble and biodegradable, it will not harm sewage-treatment microorganisms if disposal by sewer or drain is necessary. Residues on roads or traffic areas will be slippery - rinse carefully with water. To reduce eventual foam, use a silicone based defoamer or vegetable oil to spray/mist on top of the foam.



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SECTIONS VII - Handling and Storage

Handling	No special requirements necessary. Do not mix with other products or fill into dirty, uncleaned bottles / containments.
Fire protection	No special requirements necessary. The product is not flammable.
Warehousing conditions	Store in cool, dry conditions in well sealed receptacles. Recommended temperature between +5°C and +30°C. The product has no shelf-live - however we recommend to use it within 3 years.
Information about storage in one common strage facility	Not required.
Warehousing /storage class	n.e

SECTION VIII - Exposition Limits and Personal Protection

Technical Precautionary	None			
Respiratory Protection	Look for good ventilation.			
Skin Protection	Wear reasonable gloves, if prolonged contact (> 8h) with product or its solutions may be necessary.			
Eye Protection	Avoid contact with eyes.			
Full Body Protection	Remove contaminated clothing and wash skin below with plenty of water.			
Hygienic advises	Do not smoke, drink or eat as you work with the products. Wash your hands after finishing the job.			
Exposure Limits and other requirements	*****	Ingredients		Alcohol Free Cleaner – AFC
	MAK-Werte:	ml /m3	mg / m3	mg / m3 (calc.)
	3-Butoxy-2-propanol	100 ppm	550	5'000 ppm

SECTION IX - Physical and Chemical Description / Properties

Appearance		Liquid
Colour		Clear, transparent – no Color
Odor		no perfume added, mild alcoholic
Change of condition	liquid / solid	-9°C
	boiling point	100°C
Density		1.025 gr/cm3
Vapor pressure		18mm Hg 20°C - 23,5mm Hg 25°C
Viscosity		< 20 mPa.S.



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Solubility	in water	100 %
	in acetone	n.e.
pH	100%ig	9.3 – 9.5
	10%ig	8.5 – 9.5
	1%ig	7.5 – 8.5
Coefficient: n-octanol / water		n.e.
Flash point		Non flammable
Autoignition temperature		Non flammable
Explosure limits	lower	n.e.
	upper	n.e.
Vapor density		1.3 (Air/Luft/Aire = 1)
Volatile Organic Compounds		2,9% / 2,534 gr/cm ³ / 25,34gr/Liter
VOC Partial pressure		n.e.

SECTION X - Stability and Reactivity

Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications.
Dangerous reactions	No dangerous reactions known, even under fire conditions.
Dangerous products of decomposition	No dangerous decomposition products known. The product is stable even under fire conditions and will not react with water or oxidizers. Hazardous polymerisation will not occur.

SECTION XI - Toxicity

Acute Mortality Studies	DL50 DL50	acute oral acute dermal	13,8 gr/kg (Rat) > 5,0 gr/kg (Rat)
Primary irritant effect	Dermal irritation		Only mild, but reversible, irritation was found in a standard 72-hr test on rabbits. A value of 0.2 (non-irritating) was found on a scale of 8.
	Eye irritation		Mild eye Irritant. With or without rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 15 (mild irritant) on a scale of 110.
Sensibilisation			No sensitizing effects known.
Additional toxicological information			Detailed reports from independent laboratories are available and proof that Simple Green can be classified as: 'non-toxic'.



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SECTION XII - Environmental Toxicity

Mobility	Completely soluble in water.		
Persistence and Biodegradability	AFC is manufactured without colour and fragrance. All figures on toxicology and ecology shown are based on the results from below		
	OECD-302 B-Test (DOC): 97,0% 14 Tage/days, 98,7% 28 Tage/days (ICIM: 21.12.2001) OECD-301 D-Test (BOD/TOD): 100% 28 Tage/days, 87% 15 Tage/days, 57% 5 tage/days ASTM D 2667-70 (BOD/COD): 70% 11 Tage/days, 60% 7 tage/days, 56% 4 Tage/days		
Potential of Bioaccumulation	No accumulation has been found.		
Marine toxicity	Water hazard class 1 (German Regulation self-assessment):		
	1. AFC	LC50 96h	EPA Class:
EPA category scheme: LC50 or EC50 description <0,1 ppm very highly toxic 0,1 - 1,0 ppm highly toxic >1, <10 ppm moderately toxic >10, <100 ppm slightly toxic >100 ppm practically , non-toxic	Juvenile whitebait (<i>G.maculatus</i>)	220 ppm	practically non toxic
	Green lipped Mussel (<i>P. canaliculus</i>)	210 ppm	
	Mud snail (<i>P.estuarinus</i>)	350 ppm	
	Brine shrimp (<i>A. salina</i>)	399 ppm	
	Grass shrimp (<i>P. pugio</i>)	220 ppm	
	Mud minnow (<i>F. heteroclitus</i>)	1574 ppm	
	2. Rinseate from using AFC : Rainbow trout (<i>O.mykiss</i>)	>600 ppm	
AOX - indicator	No ozone depleting reactions known. No AOX potential.		
Other information	Based upon chemical analysis, AFC contains no known EPA priority pollutants, heavy metals, or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents AFC has been approved and listed by the EPA (USEPA, Oil Program Center) on April 23, 1990 and August 30, 1995 as a oil-dispersant and product for cleaning after oil-spills on open water, fresh water, estuarine and marine environments. The recommended concentration is 5%.		

SECTION XIII - Disposable Considerations

Product	Original bottled products return to dealer. Smaller quantities may be disposed by sewer-system /drains (see 6.3.)
Packaging materials	Wash containers with water - they may be recycled or applied to other uses.



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SECTION XIV - Transportation Information

Land transport ADR/RID (cross-border)		
ADR/RID class	n.a	NO DANGEROUS GOODS
Item	n.a	
Danger code (Kemler)	n.a	
UN-Number	n.a	
Label	n.a	
Description of goods		Solution of surfactants
Maritime transport IMDG		
IMDG Class	n.a	NO DANGEROUS GOODS
Page	n.a	
UN-Number	n.a	
Packaging group	n.a	
EMS Number	n.a	
MFAG	n.a	
Marine pollutant		
Propper shipping name		Solution of surfactants
Air transport ICAO-TI and IATA-DGR		
ICAO/IATA-Class	n.a	NO DANGEROUS GOODS
UN/ID-Number	n.a	
Packaging group	n.a	
Propper shipping name		Solution of surfactants

SECTION XV - Regulatory

15.1 Markings according to EU guidelines

The product has been classified and marked in accordance with EU directives / ordinance on Hazardous Materials

Code letter and hazard designation of product	n.a.	n.a.
Risk phrases	n.a.	n.a.
Safety phrases	n.a.	n.a.



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15.2 Nationale Vorschriften

AT	Austria	n.a.	ÖBIG-Vergiftungsinformationszentrale 24h Notruf-Nummer: +43 1 515 61
CH	Switzerland	(BAG/PFSP/UFSP T 93442	Classification not requested
DE	Germany	(UBA Nr. 3251 0003)	Classification not requested
		AbwasserVO - mineralölhaltiges Abwasser Anhang 49 (Stand 7/2002)	abscheidefreundlich im Sinne des Anhang 49 der Abwasser VO. Erfüllt die Anforderungen um als Reinigungsmittel in Betrieben mit Leichtflüssigkeitsabscheideanlagen eingesetzt zu werden.
		Verfahren zur Beseitigung von Ölspuren auf Verkehrsflächen - ausgenommen Ölbinder. BMU vom 07.06.1991, GMBI 1991 S.681	Das Prüfzeugnis Nr. 22 000 3292 04 der MPA NRW vom 28.06.2004 ist bis 02.02.2010 befristet und bestätigt den erfolgreichen Einsatz des Produktes in einer Verdünnung von 1:10 sowie 1:50 bei der Beseitigung von Ölspuren auf Verkehrsflächen
CZ	Czech Republic	C 95 247	Classification not requested
DK	Denmark	PR-nr. 1090723	Classification not requested
IS	Iceland	98 - 257	Classification not requested
GR	Greek	5465/0/2000	Classification not requested
HU	Hungary	14.06.2001	Classification not requested
IL	Israel	KASHRUT CERTIFICATE	Kosher-Certificate - also for Pessach
H	Norway	P- 50957	Classification not requested
P	Poland	PZH/HAT-1928/2005	Classification not requested
S	Sweden	A-nr. 358728- 4	Classification not requested
USA	United States	H:1 F:0 R:0 S:0	HAZCHEM Code: Health = 1 (slight)

SECTION XVI - Other Information

- 16.1 This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
- 16.2 Changes from the previous version are marked with a black bar on the right side
- 16.3 Contents are automatically copied from the german version into the other languages



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