



SAFETY DATA SHEET

PART I *What is the material and what do I need to know in an emergency?*

1. SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING PRODUCT IDENTIFIER

TRADE NAME (AS LABELED): **Cleaning Swabs PCK-6**
CHEMICAL NAME/CLASS: Not Applicable
SYNONYMS: None
RELEVANT PRODUCT USE: Technical Cleaning of Printing Devices
USES ADVISED AGAINST: Other than Relevant Use

SUPPLIER OF THE SAFETY DATA SHEET

ASIAN SUPPLIER/ DISTRIBUTOR'S NAME: Brady Corporation Asia Pacific Pte Ltd
ADDRESS: 1 Kaki Bukit Crescent
Singapore 416236
BUSINESS PHONE: +65 64777261 [9 am to 5 pm]
FAX PHONE: +65 63832229
EMERGENCY PHONE: Infotrac: 1-352-323-3500 (INTERNATIONAL) [24 hours]
EMAIL: regulatory_compliance_asia@bradycorp.com

U.S. SUPPLIER/MANUFACTURER'S NAME: Brady Worldwide
ADDRESS: 6555 West Good Hope Road
Milwaukee, WI 53223 USA
BUSINESS PHONE: (414) 358-6600 [8 am to 5 pm CT]
EMERGENCY PHONE: Infotrac: 1-800-535-5053 (U.S. and Canada) [24 hours]
EMAIL: regulatory_compliance_americas@bradycorp.com

EUROPEAN SUPPLIER/ DISTRIBUTOR'S NAME: WH Brady NV
ADDRESS: Lindestraat 20
Industriepark C3
B - 9240 ZELE
BELGIUM
BUSINESS PHONE: 0032/(0)52.45.79.05 [9 am to 5 pm]
EMERGENCY PHONE: Infotrac: 1-352-323-3500 (INTERNATIONAL) [24 hours]
EMAIL: regulatory_compliance_emea@bradycorp.com

2. HAZARD IDENTIFICATION

This product is a clear liquid with a slight alcohol odor. For non-free flowing products, the liquid is impregnated on a cellulose pad, polypropylene pad or felt pen core. There is a small amount of liquid on the pads and no free liquid in the packages. For free flowing liquid, a small amount of liquid is contained in an enclosed core that is then opened to release liquid onto the applicator. A very small amount of free liquid may be released.

2.1 Classification:

Physical: Flammable Liquid Category 2 Health: Eye Irritant Category 2 Environmental : None



2.2 Hazard Phrases

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation

2.3 Precautionary Phrases

P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P243 Take action to prevent static discharge.
P264 Wash thoroughly after handling.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice or attention.
P370 + P378 In case of fire: Use water spray or fog, foam, carbon dioxide or dry chemical to extinguish.
P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P501 Dispose of contents and container in accordance with local, regional, and national regulations

3. COMPOSITION and INFORMATION ON INGREDIENTS

3.1. Substances:

Chemical Name	CAS#	EINECS#	EU Classification (67/548/EEC)	GHS Classification Regulation (EC) No 1272/2008	%
Isopropanol	67-63-0	200-661-7	F, Xi R11, R36, R67	Flam Liq Cat 2 (H225), Eye Irrit Cat 2 (H319), STOT SE Cat 3 (H336)	< 60

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

Eye Contact: If contact occurs, immediately flush eyes with water for 15 minutes, holding the eye lids open to be sure the material is washed out. Get medical attention if irritation persists.

Skin: No first aid should be required. If skin irritation develops, discontinue use and seek medical attention.

Inhalation: If symptoms develop move to fresh air. Get medical attention if irritation persists or other symptoms persist.

Ingestion: Ingestion is unlikely for solid products. No first aid is required for small amounts transferred from hands to mouth.

4.2 Most Important symptoms and effects, both acute and delayed: Causes eye irritation. May cause slight skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed: None required under normal conditions of use.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:

Use water spray or fog, foam, carbon dioxide or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Liquid saturant is a flammable liquid and vapor. Vapors are heavier than air and may flow along surfaces to remote ignition sources and flash back. This product contains only a small amount of liquid per container, therefore the risk of creating a fire hazard is minimal.

Hazardous Decomposition Products: Combustion may produce oxides of carbon and other unknown compounds.

5.3 Advice for Fire-Fighters:

Firefighters should always wear self-contained breathing apparatus and full protective clothing for fires involving chemicals or in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective clothing. Eliminate ignition sources. Eliminate sources of ignition or heat.

6.2 Environmental Precautions:

Report spill as required by local and federal regulations.

6.3 Methods and Material for Containment and Cleaning Up:

Pick up product and wipe up any released liquid and place into an appropriate container for disposal. Do not place into containers where sources of ignition such as cigarettes or other ignition sources may be discarded. If free liquid is released, wipe up liquid with a paper towel or other appropriate material or absorb liquid with an inert absorbent and place into a container for disposal.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 15 for disposal considerations.

PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with eyes. Avoid breathing vapors. Do not smoke, eat or drink when handling.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in a cool, dry location away from heat, sparks and open flames. Protect container from physical damage. Keep containers closed when not in use.

7.3 Specific end use(s):

Technical cleaning.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

8.1 Control parameters:

Chemical Name	Exposure Limits	Biological Limit Value
Isopropanol	400 ppm OSHA PEL 200 ppm TWA ACGIH TLV, 400 ppm STEL 200 ppm TWA DFG MAK 400 ppm TWA UK WEL, 500 ppm STEL UK WEL 400 ppm TWA AU OEL, 500 ppm STEL AU OEL	None established

Refer to local regulations if exposure limits are not listed above.

8.2 Exposure Controls

Engineering Controls: General ventilation is adequate under normal conditions of use.

Respiratory Protection: None required for normal use.

Skin Protection: None required under normal use conditions. For prolonged exposure or exposure to free liquid, use butyl rubber gloves if needed to prevent skin contact.

Eye Protection: None required under normal use conditions. For prolonged exposure or exposure to free liquid, use eye glasses with side shields or goggles to prevent eye contact if splashing is possible.

Other: None required under normal conditions of use.

9. PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Unless otherwise indicated, all values given are for isopropanol.

Appearance: Clear liquid with an alcohol odor impregnated on a cellulose pad, fabric pad, or felt pen core or as free liquid contained in an enclosed tube. **Vapor Density:** 2.1

Odor: Mild alcohol odor.

Odor Threshold: No data available.

pH: Not available.

Melting Point/Freezing Point: -121°F (-85°C)

Boiling Point: 180°F (82°C) @ 760 mmHg

Flash Point: 54°F (12°C)

Viscosity: Not available.

Evaporation Rate: 1.2 (Butyl acetate = 1)

Vapor Pressure: 32.25 mmHg @ 20°C

Percent Volatile: 100%

Specific Gravity: 0.78

Water Solubility: Saturant – Infinite

Octanol/Water Partition Coefficient: Not available.

Autoignition Temperature: >662°F (>350°C)

Decomposition Temperature: Not available.

Flammable Limits: LEL – 2% UEL – 12.7%

Explosion Properties: Not explosive.

Oxidizing Properties: Not oxidizing.

VOC Content: 6.551 lb/gal

Release of Invisible Vapours and Gases: Yes

9.2 Other information: None.

10. STABILITY and REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use.

10.2 Chemical Stability:

Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions:

Reaction with oxidizers will generate heat.

10.4 Conditions to Avoid:

Keep away from heat, sparks, and open flames.

10.5 Incompatible Materials:

Avoid oxidizing agents, aldehydes, chlorine, ethylene oxide, acids, and isocyanates.

10.6 Hazardous Decomposition Products:

Thermal decomposition may produce oxides of carbon.

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION**11.1****Information on Toxicological Effects**

Eye: Direct contact with liquid will cause eye irritation with redness, tearing and stinging. Permanent damage is unlikely.

Skin: Prolonged contact may cause irritation with drying and dermatitis.

Inhalation: Inhalation of vapors may cause upper respiratory tract irritation, headache, dizziness, drowsiness, confusion, and other central nervous system effects.

Ingestion: This product contains only a small amount of liquid. Swallowing large quantities may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute Toxicity Values:

Isopropanol: Oral rat LD50 5,045 mg/kg; inhalation rat LC50 16,000 ppm/8 hr; Skin rabbit LD50 12,800 mg/kg.

Irritation: Isopropanol is an eye irritant.

Corrosivity: This is not a corrosive product.

Sensitization: This product is not expected to cause sensitization.

Repeat Dose Toxicity: F344 rat and CD-1 mice were exposed to 0, 100, 500, 1500, or 5000 ppm isopropanol for 13 weeks. Signs of narcosis were observed in the 5000-ppm isopropanol groups only. Increased body weight and/or body-weights gain were observed for rats of the 1500- and 5000-ppm groups as well as female mice of the 5000-ppm group compared to control animals. Changes to food and water consumption generally corresponded to changes in body weight. Increased relative liver weights for both sexes of rats and female mice of the 5000-ppm group and increased size and frequency of hyaline droplets within the kidneys of exposed male rats were observed.

Carcinogen Status: The isopropanol component is listed as ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen) and as IARC-3 (Unclassifiable as a Human Carcinogen).

Germ Cell Mutagenicity: In an *in-vivo* study, isopropanol did not induce micronuclei in bone marrow of mice. Studies conducted in mammalian cells *in vitro* did not induce sister chromatid exchanges or gene mutations. Isopropanol did not induce aneuploidy in *Neurospora crassa* study. It is not mutagenic to bacteria.

Toxicity for Reproduction: Isopropanol was given continuously in drinking water in doses of 1.5, 1.4, & 1.3 g/kg body weight/day to parents and to two successive generations of rats, respectively. Neither growth, reproductive function nor embryonic or postnatal development was affected, except for some retardation of growth early in life of first generation rats.

12. ECOLOGICAL INFORMATION**12.1 Toxicity:**

This product contains less than 3 grams of liquid on the pads and no free liquid or very small quantities of free liquid in the package. No adverse effects on the aquatic environment are expected.

Isopropanol: 96 hr LC50 fathead minnows 6,120 mg/L; 48 hr LC50 brown shrimp 1400 mg/L

12.2 Persistence and Degradability:

Readily biodegradable.

12.3 Bioaccumulative Potential:

Not expected to bioaccumulate.

12.4 Mobility in Soil:

No data available.

12.5 Results of PBT and vPvB Assessment:

Not required

12.6 Other Adverse Effects:

None known.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods:**

Dispose in accordance with local and national environmental regulations.

14. TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
For non-free flowing liquid					
US DOT		Not Regulated (49 CFR 172.102 Special Provision 47)			
EU ADR/RID		Not Regulated (Special Provision 216)			
IMDG		Not Regulated (Special Provision 216)			
ICAO		Not Regulated (Special Provision A48)			
For free flowing liquid*					
US DOT	UN1219	Isopropanol Solution	3	II	None
EU ADR/RID	UN1219	Isopropanol Solution	3	II	None
IMDG	UN1219	Isopropanol Solution	3	II	None
ICAO	UN1219	Isopropanol Solution	3	II	None

* For free flowing liquid – quantities less than 30 mL can be shipped under the excepted quantity provisions when in packages of less than 0.5 L total free liquid.

14.6 Special Precautions for User: None.

15. REGULATORY INFORMATION

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

US Regulatory Information

EPA SARA 311 Hazard Classification: Acute Health, Fire Hazard.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product contact contains the following materials known to the state of California to cause cancer and/or reproductive harm: None.

Canadian Regulatory Information

WHMIS Classification: Class B Division 2 (Flammable Liquid), Class D Division 2B (Toxic material causing other harmful effects)

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.

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

Australian Regulations

Montreal Protocol (Ozone Depleting Substances): None present.

The Stockholm Convention (Persistent Organic Pollutants): None present.

The Rotterdam Convention (Prior Informed Consent): Not applicable.

Basel Convention: Not applicable.

International Convention for the Prevention of Pollution from Ships (MARPOL): Not applicable.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): No ingredients are listed.

International Inventories

US EPA TSCA Inventory: All of the components are listed on the TSCA inventory.

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

European Union: One or more of the components of this product are not listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

Australia: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

China: All of the ingredients of this product are listed on the Inventory of Existing Chemical Substance in China (IECSC).

Korea: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

Japan: All of the components of this product are listed on the Japanese Existing and New Chemical Substances List (ENCS).

New Zealand: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).

Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

15.2 Chemical Safety Assessment: Not required.

16. OTHER INFORMATION

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

Flam Liq Cat 2 - Flammable Liquid Category 2

Eye Irrit Cat 2 - Eye Irritation Category 2

STOT SE Cat 3 - Specific Target Organ Toxicity Single Exposure Category 3

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

F Highly Flammable.

Xi Irritant.

R11 Highly flammable.

R36 Causes eye irritation.

R67 Vapours may cause drowsiness or dizziness.

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Prepared by:

**Rob Thompson
Director of EHS Engineering
Brady Corporation**