

Chemical Safety Data Sheet

000000023151/Version 1.0

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1. Identification of the substance/preparation and of the company/undertaking

Product name: EXPERIMENTAL CARTRIDGE ADHESIVE

Product code: 27003662

Supplier: Rayco(Shanghai) Medical Products Company, Building 7, No.1510 Chuanqiao Road, Pudong New Area, 201206, Shanghai

For Chemical Emergency Information, call: (800) 820-5800

Synonyms: None.

Product Use: adhesive, For industrial use only.

2. Hazards identification

GHS-Classification

Hazard class	Hazard category	Route of exposure (Target organs)
Flammable liquids	Category 2	--
Skin corrosion/irritation	Category 3	--
Serious eye damage/eye irritation	Category 2A	--
Skin sensitization	Category 1	--
Carcinogenicity	Category 1B	--
Toxic to reproduction	Category 2	--
Target Organ Systemic Toxicant - Single exposure	Category 1	-- (Target Organs: Central nervous system, Kidney, Systemic toxicity)
Target Organ Systemic Toxicant - Single exposure	Category 2	-- (Target Organs: Liver)
Target Organ Systemic Toxicant - Single exposure	Category 3	-- (Target Organs: Respiratory tract)
Aspiration hazard	Category 1	--

GHS-Labelling

Contains:

Naphtha, petroleum, light alkylate (64741-66-8)

Propyl acetate (109-60-4)

Isopropanol (67-63-0)

Symbol(s):



Signal Word: Danger

Hazard Statements:

Highly flammable liquid and vapour
Causes mild skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May be fatal if swallowed and enters airways.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs.
(Central nervous system, Kidney, Systemic toxicity)
May cause damage to organs.
(Liver)
May cause respiratory irritation.

Precautionary Statements:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Take precautionary measures against static discharge.
Use only non-sparking tools.
In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves and eye/face protection.
Use personal protective equipment as required.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
IF exposed: Call a POISON CENTRE or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
Do NOT induce vomiting.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Wash hands after handling.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

3. Composition/information on ingredients

Weight %	Components (CAS-No.)
55 - 70	Naphtha, petroleum, light alkylate (64741-66-8)
10 - 20	Propyl acetate (109-60-4)
5 - 15	Isopropanol (67-63-0)

4. First aid measures

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin: Wash off with soap and water. Get medical attention if symptoms occur.

Ingestion: If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

Notes to physician:

Treatment: Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

5. Fire-fighting measures

Extinguishing Media: Water spray, Carbon dioxide (CO₂), Dry chemical, Foam.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Use water spray to cool unopened containers. The product is insoluble and floats on water. Do not use a solid water stream as it may scatter and spread fire. Water may be ineffective.

Hazardous Combustion Products: Carbon oxides, (see also Hazardous Decomposition Products section).

Unusual Fire and Explosion Hazards: Flammable. Material contains a flammable solvent that may accumulate in the container headspace. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Prevent buildup of vapours or gases to explosive concentrations. May form peroxides of unknown stability.

6. Accidental release measures

Personal precautions:

See Section 8 for recommendations on the use of personal protective equipment.

Methods for cleaning up: Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

For Large Spills: Use water spray to disperse vapours and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Personal precautions: Avoid breathing mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes and prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from open flames, hot surfaces and sources of ignition. If peroxide formation is suspected, do not open or move container. Minimize exposure to air. Do not distill or allow to evaporate to near dryness. Use only with adequate ventilation. Keep from contact with oxidizing materials. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Storage: Store in cool place. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Propyl acetate	ACGIH	time weighted average	200 ppm
		Short term exposure limit	250 ppm
Isopropanol		time weighted average	200 ppm
		Short term exposure limit	400 ppm

Ventilation: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

Respiratory protection: None should be needed under normal conditions of use.

Eye protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities:

9. Physical and chemical properties

Physical form: liquid

Colour: no data available

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: no data available

Boiling point/boiling range: > 35.0 °C (> 95.0 °F) (estimated)

Water solubility: no data available

pH: no data available

Flash point: -6.6 °C (20.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Isopropanol. Ingestion of large amounts of isopropyl alcohol may cause headache, dizziness, incoordination, vomiting, confusion, stupor, kidney injury coma and death. Prolonged exposure to high vapour concentrations of isopropyl alcohol may cause irritation of the eyes, nose, and throat and narcosis. Can cause CNS effects.

Inhalation: High vapour concentrations may cause irritation. Exposure to high vapour concentrations may cause headache, nausea, confusion, drowsiness and suppression of Central Nervous System activity.

Eyes: Causes eye irritation. High vapour concentrations may cause irritation.

Skin: Prolonged or repeated contact may cause drying, cracking, or irritation.

Ingestion: Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

Data for Propyl acetate (CAS 109-60-4):

Acute Toxicity Data:

- Oral LD50 (rat): > 3,200 mg/kg
- Skin irritation: slight

Data for Isopropanol (CAS 67-63-0):

Acute Toxicity Data:

- Oral LD50 (rat): 5,800 mg/kg

- Inhalation LC50 (rat): 12,000 mg/l / 8 hr
- Dermal LD50: > 2,000 mg/kg
- Skin irritation: slight
- Skin irritation: No skin irritation (repeated skin application)
- Eye irritation: slight to moderate

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Persistence and degradability: Not readily biodegradable.

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws.

14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

IATA:	UN Number:	UN1133
	Proper shipping name:	Adhesives
	Class:	3
	Packaging group:	II
IMDG:	UN Number:	UN1133
	Proper shipping name:	ADHESIVES
	Class:	3
	Packaging group:	II

For more transportation information, go to: <http://ship.carestreamhealth.com>.

15. Regulatory information

Dangerous Chemicals list -2002 published by China National Security to produce Surveillance administrative Bureau: Listed - Propyl acetate, Isopropanol

Notification status

Regulatory List	Notification status	Other information	Not listed
EINECS	n (Negative listing)	-	Acrylate Polymer; Residual Monomer; Polymer(s)
TSCA	n (Negative listing)	Not On TSCA Inventory	Acrylate Polymer; Residual Monomer; Polymer(s)

AICS	n (Negative listing)	-	Acrylate Polymer; Residual Monomer; Polymer(s)
DSL	n (Negative listing)	This product contains the following components that are not on the Canadian DSL nor NDSL lists.	Polymer(s); Residual Monomer; Acrylate Polymer
ENCS (JP)	n (Negative listing)	-	Naphtha, petroleum, light alkylate; Acrylate Polymer; Residual Monomer; Polymer(s)
KECI (KR)	n (Negative listing)	-	Acrylate Polymer; Residual Monomer; Polymer(s)
PICCS (PH)	n (Negative listing)	-	Polymer(s); Residual Monomer; Acrylate Polymer
INV (CN)	n (Negative listing)	-	Acrylate Polymer; Residual Monomer; Polymer(s)

A N (Negative listing) indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Carestream Health.

16. Other information

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.