



SAFETY DATA SHEET  
INK AND ADHESIVE REMOVER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name INK AND ADHESIVE REMOVER  
Product No. CSR011

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Ink and Adhesive remover.

1.3. Details of the supplier of the safety data sheet

Supplier Case Medical Inc.  
19 Empire Blvd.  
South Hackensack  
NJ 07606  
USA  
Tel: 201-313-1999  
Fax: 201-373-9090  
Contact Person SDS Contact: DCM Compliance, info@dcmcompliance.com

1.4. Emergency telephone number

201-313-1999

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 3 - H226
Human health	Skin Irrit. 2 - H315; Skin Sens. 1 - H317
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Classification (1999/45/EEC) Xi; R38. R43. N; R50/53. R10.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Physical and Chemical Hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

2.2. Label elements

Contains CITRUS TARPENES

Label In Accordance With (EC) No. 1272/2008



Signal Word Warning

Hazard Statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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### Supplementary Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing vapour/spray.
P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362	Take off contaminated clothing and wash before reuse.

### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>CITRUS TERPENES</b>		<b>60-70%</b>
CAS-No.: 94266-47-4	EC No.:	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Skin Irrit. 2 - H315	Xi;R38.	
Skin Sens. 1 - H317	N;R50/53.	
Aquatic Acute 1 - H400	R10,R43.	
Aquatic Chronic 1 - H410		
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.		

### Composition Comments

The data shown are in accordance with the latest EC Directives.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

#### Inhalation

Place unconscious person on the side in the recovery position and ensure breathing can take place. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

#### Ingestion

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

#### Skin contact

Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

#### Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Inhalation.

May cause nose, throat, and respiratory tract irritation, coughing, headache.

#### Ingestion

Not likely to be toxic, but may cause vomiting, headache, or other medical problems.

#### Skin contact

Prolonged skin contact may cause redness and irritation.

#### Eye contact

May cause severe irritation to eyes.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

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### 5.1.Extinguishing media

Extinguishing media

Fire can be extinguished using: Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemicals. Caution: Carbon dioxide will displace air in confined spaces and may create an oxygen deficient atmosphere.

### 5.2.Special hazards arising from the substance or mixture

Hazardous combustion products

Fire forms acrid fumes, carbon monoxide, and carbon dioxide

### 5.3.Advice for firefighters

Special Fire Fighting Procedures

Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1.Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2.Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### 6.3.Methods and material for containment and cleaning up

Dike spill area and cap leaking containers as necessary to prevent further spreading of spilled material. Absorb spilled liquid with suitable material such as dirt or sand. Slippery when spills.

### 6.4.Reference to other sections

For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1.Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

### 7.2.Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and flames. Open container slowly to release pressure caused any temperture variations. Used well ventilation. Product may package in phelonic-lined steel containers or fluorinated plastic containers. Store in well ventilated area with proper sprinkler/ fire deterrent system. Storage temperature should not exceed the flash point for extended periods of time.

Storage Class

Flammable liquid storage.

### 7.3.Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1.Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

### 8.2.Exposure controls

Protective equipment



Process conditions

Provide eyewash station.

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### Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

### Respiratory equipment

Wear mask supplied with: Gas cartridge suitable for organic substances.

### Hand protection

Handle with gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Use protective gloves made of: Neoprene. Nitrile. Rubber (natural, latex).

### Eye protection

Use suitable eye protection if eye contact is likely. Most materials for protective goggles and face visors will probably be suitable e.g. polycarbonate. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless to pale yellow.
Odour	Citrus
Solubility	Partially soluble in water.
Initial boiling point and boiling range	144
Relative density	0.929 20
Vapour pressure	1 mm Hg 20
Flash point	>127 Not noted.

### 9.2. Other information

Not known.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

No particular stability concerns.

### 10.3. Possibility of hazardous reactions

To prevent oxidation, avoid long-term exposure to air. If storing partially filled container, fill headspace with an inert gas such as nitrogen or carbon dioxide.

### Hazardous Polymerisation

Unknown.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

### 10.5. Incompatible materials

#### Materials To Avoid

Strong oxidizing agents and strong acids, including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride.

### 10.6. Hazardous decomposition products

Oxides of citrus terpenes, which can result from improper storage and handling, are known to cause skin sensitization.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

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## Toxicological information

Citrus terpenes have been shown to have low oral toxicity (LD50>5g/kg) and low dermal toxicity (LD50>5g/kg) when tested on rabbits. Citrus terpenes also showed low toxicity by inhalation (RD50>1g/kg) when tested on mice. The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively.

## Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

## Ingestion

Gastrointestinal symptoms, including upset stomach.

## Skin contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin. May cause sensitisation by skin contact.

## Eye contact

Irritating to eyes.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 12.2. Persistence and degradability

#### Degradability

This product is readily biodegradable.

### 12.3. Bioaccumulative

~~potential~~ Bioaccumulative

potential

No appreciable bioconcentration is expected in the environment.

### 12.4. Mobility in soil

Mobility:

Citrus terpenes volatilize rapidly.

### 12.5. Results of PBT and vPvB assessment

N/A

### 12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

Observe all local, national and international regulations.

### 13.1. Waste treatment methods

Oil soaked rags may spontaneously combust, place in appropriate disposal container. Taking regulations into consideration, waste may be incinerated or handled through EPA spill control plan via landfill or dilution

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN) 2319

UN No. (IMDG) 2319

UN No. (ICAO) 2319

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### 14.2.UN proper shipping name

Proper Shipping Name TERPENE HYDROCARBONS, N.O.S. (CITRUS TARPENES)

### 14.3.Transport hazard class(es)

ADR/RID/ADN Class 3  
ADR/RID/ADN Class Class 3: Flammable liquids.  
ADR Label No. 3  
IMDG Class 3  
ICAO Class/Division 3  
Transport Labels



### 14.4.Packing group

ADR/RID/ADN Packing group III  
IMDG Packing group III  
ICAO Packing group III

### 14.5.Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



### 14.6.Special precautions for user

EMS F-E, S-D  
Emergency Action Code 3Y  
Hazard No. (ADR) 30  
Tunnel Restriction Code (D/E)

### 14.7.Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: REGULATORY INFORMATION

### 15.1.Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Legislation

The UN Globally Harmonised System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

### 15.2.Chemical Safety Assessment

## SECTION 16: OTHER INFORMATION

Revision Date Jan 27/2016  
Revision D

## INK AND ADHESIVE REMOVER

### Risk Phrases In Full

R10	Flammable.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard Statements In Full

H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

### HIMS Rating

Health	1	1- least 2- slight 3- moderate 4- high 5- extreme
Flammability	2	
Reactivity	0	
Personal Protection	B	

### **Note:**

**The chemical components in the formulation, while having different risk classifications, provide a safe threshold when this product is used as directed and diluted according to manufacturer's instructions.**

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.