

# Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

## 1. Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**  
Product name: Spot Cleaning Fluid SP-444  
Product Code: SP-444
- **1.2 Details of the supplier of the Safety Data Sheet**  
Manufacturer/Supplier:  
Image Technology  
1380 N. Knollwood Circle  
Anaheim, CA 92801  
Phone: 714-252-0160
- **1.3 Emergency telephone number:**  
Infotrac  
(800) 535- 5053

## 2. Hazard Identification

- **2.1 Classification of the substance or mixture**
- GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Specific target organ toxicity.  
Skin Corr.  
Eye Irrit.

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

### Hazard statement(s)

May be harmful if swallowed and enters airways.  
Harmful if inhaled.  
Causes eye irritation and/or painful chemical burns of the eye and eyelids.  
Fumes from this product can cause irritation of the nose, nasal passages and lungs.  
Causes severe irritation and/or defatting of the mouth, esophagus, stomach, and intestinal tract.

### Precautionary statement(s)

Keep away from heat.  
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.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
May cause damage to the central nervous system through prolonged or repeated inhalation.  
May cause damage to the liver or blood through prolonged or repeated ingestion.

### NFPA rating (scale 0 – 4)



Health = 2

Fire = 1

Reactivity = 0

# Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

HMIS-rating (scale 0 - 4)



Health = 2

Fire = 1

Reactivity = 0

- **HMIS Long Term Health Hazard Substances**  
Substances is not listed.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT** : Not applicable
- **vPVB**: Not applicable

### 3. Composition/information on ingredients

#### 3.1 Substances

Substance/mixture

: Mixture

Chemical name

: Dichloromethane, Perchloroethylene

#### CAS number/other identifiers

Ingredient name	%	CAS number
Dichloromethane	<90%	000075-09-2
Perchloroethylene	<10%	000127-18-4

### 4. First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Do not leave affected persons unattended.
- **After inhalation:**  
Remove from contaminated area promptly. Supply fresh air. If required, provide artificial respiration. Consult doctor promptly.
- **After skin contact:**  
Flush exposed area with lukewarm water for 15 minutes. Consult physician immediately.
- **After eye contact:**  
Rinse opened eye for 30minutes under running water.  
Remove contact lenses if worn.  
Consult physician immediately.
- **After swallowing:**  
Do not induce vomiting. Consult a physician immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
High atmospheric concentrations will lead to anaesthetic effects and adverse effects on the central nervous system. Symptoms may include lightheadedness, nausea, vomiting and headache. Exposure to concentrations of 1000ppm for 20 minutes causes lightheadedness. Continued or high exposures by inhalation will cause anaesthetic effects. This may result in a loss of consciousness and could prove fatal.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Remove contaminated clothing immediately. In case of accident by inhalation remove casualty to fresh air and keep at rest. Seek medical treatment when anyone has symptoms apparently due to inhalation, contact with skin or eyes, or swallowing. Adrenaline and similar sympathomimetic drugs should be avoided following exposure as cardiac arrhythmia may result with

## Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

possible subsequent cardiac arrest.  
Medical supervision for at least 48 hours.

### 5. Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Water, Fog.
- **For safety reasons unsuitable extinguishing agents:** None
- **5.2 Advice for firefighters**
- **Protective equipment:**  
Self-contained breathing apparatuses are recommended for fire fighters. Concentrated vapors may be ignited by high intensity source. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Keep water runoff out of water supplies and sewers.
- **Additional information** No data available

### 6. Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment  
Keep unprotected persons away  
Ensure adequate ventilation
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Evacuate area. Contain liquid, transfer to closed metal containers. Keep out of water supply. When disposing of chemicals, contact local, state, and federal environmental agencies to fully understand the necessary regulations governing the disposal of chemicals wastes.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for more information on personal protection equipment  
See Section 13 for disposal information

### 7. Handling and Storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace. Do not breathe gas, vapors, or spray mist. Most vapors are heavier than air and will spread along ground and collect in low or confined areas (drains, basements, tanks). Avoid contact with skin, eyes and clothing. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. Wash thoroughly after handling. Do not taste or swallow. When using, do not eat, drink or smoke.
- **Information about fire - and explosion protection:**  
Forms flammable vapor air mixtures. Lower temperatures increase the difficulty of getting it to ignite.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location, away from sources of ignition, heat and oxidizing agents  
Store only in the original receptacle
- **Information about storage in one common storage facility:**  
Store away from flammable substances  
Store away from food stuffs
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles

# Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

- **7.3 Specific end use(s)** No further relevant information available

## 8. Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

- **Regulatory Exposure Limits:**

Ingredient name	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PEL Ceiling
Dichloromethane	25 ppm	125 ppm	-
Perchloroethylene	-	-	-

- **Non-Regulatory Exposure Limits:** Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

Ingredient name	CAS #	ACGIH TWA	ACIGH STEL	ACIG Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Dichloromethane	75-09-2	50 ppm	-	-	500 pp[m	2000 ppm	1000 ppm
Perchloroethylene	-	-	-	-	-	-	-

**Additional information:** The lists valid during the marketing were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.  
 Use suitable respiratory protective device when high concentrations are present.

- **Protection on hands:**



Protective gloves

To avoid possible defatting of the skin or tissue damage, it is recommended that rubber or plastic gloves be worn.

- **Material of gloves**

Rubber or Plastic

The Selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Not suitable are gloves made of the following materials:** Leather gloves

# Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

- **Eye protection:**



Safety glasses

When handling this product and there is the possibility of splashing it is recommended that proper protection for the eyes be worn. This consists of goggles and/or face shield Safety glasses with side shields- always protect the eyes.

- **Body protection:** When handling chemicals in 55 gallon drums, it is recommended that steel toed rubber boots and a splash apron be worn.
- **Limitation and supervision of exposure into the environment**  
Dichloromethane – Immediately Dangerous to Life/Health @ 2300 ppm IDLH  
Perchloroethylene – Immediately Dangerous to Life/Health @ 150 ppm IDLH
- **Risk management measures**  
See Section 7 for additional information.  
No further relevant information available.

## 9. Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

### General Information

**Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Slight, not unpleasant.
<b>Odor threshold:</b>	Not determined.
<b>pH (Concentrate):</b>	Not determined.
<b>pH (1% solution):</b>	Not determined.
<b>Change in condition</b>	
<b>Freezing point/Freezing range:</b>	-139 F (-95 C).
<b>Boiling point/Boiling range:</b>	104F (39.8 C)
<b>Flash point:</b>	Not determined.
<b>Flammability:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Specific Gravity (water =1)</b>	1.308 @25/25C 77F
<b>Self-igniting:</b>	Not determined.

### Explosion limits:

<b>Lower:</b>	14% @25C
<b>Upper</b>	22%@ 25C
<b>Vapour pressure:</b>	355 mmhg@20C 68F
<b>Conversion Factor:</b>	Not determined.
<b>Molecular Weight:</b>	Not determined.
<b>Vapour density</b>	2.93
<b>Evaporation rate (water=1)</b>	0.7
<b>Solubility in / Miscibility with</b>	2.0gm/100gm @25C
Water	
<b>Percentage of Volatiles:</b>	Not determined.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	Not determined.

# Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

**Dynamic:**

Not determined.

**Kinematic:**

Not determined.

## 9.2 Other information

No further relevant information available.

## 10. Stability and reactivity

### •10.1 Reactivity

No further relevant information available.

### •10.2 Chemical stability

Stable under recommended storage conditions.

### •Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

### •10.3 Possibility of hazardous reactions

No further relevant information available.

### •As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes:

No further relevant information available.

### •10.4 Conditions to avoid

Avoid contact with heat, flames and sparks.

### •10.5 Incompatible materials:

Alkali metals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium, Strong acids and strong bases, Vinyl compounds

### •10.6 Hazardous decomposition products:

No further relevant information available.

## 11. Toxicological information

### •11.1 Information on toxicological effects

#### •Aquatic toxicity:

- *Dichloromethane*  
LD50 (rat, oral) >985mg/kg  
LC50 Inhalation - Rat - 76000 mg/m<sup>3</sup>  
LD50 Dermal - Rat - > 2,000 mg/kg (OECD Test Guideline 402)
- *Perchloroethylene*  
LC50 Oral – 2629 mg/kg oral-rat  
LD50 Dermal -- >3228 mg/kg skin-rabbit  
LC50 Inhalation – 5200 ppm (4-hr. Rat)

#### •Primary irritant effect:

•On the skin: Skin - Rabbit Result: Irritating to skin. - 24 h (Draize Test)

•On the eye: Eyes - Rabbit Result: Irritating to eyes. - 24 h (Draize Test)

•Sensitization: Not determined.

#### •Additional toxicological information:

*Dichloromethane*

LD50 (rat, oral) 1600mg/kg

LC50 Inhalation - Rat - 53 mg/L (6 hours Rat)

LD50 Dermal – Not available.

*Perchloroethylene*

LD50 Oral: 2629 mg/kg (Rat)

LD50 Dermal: 2800 mg/kg (Mouse)

LC50 Inhalation: 27.8 mg/L (4-hr Rat)

## 12. Ecological information

# Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

## •12.1 Toxicity

### •Aquatic toxicity:

#### *Dichloromethane*

Freshwater Fish Toxicity:

- **LC50 (Static) Fathead Minnow:** 310 mg/L 96 hour(s)
- **LC 50 (Static) Bluegill Sunfish:** 220 mg/L 96 hour(s)

Invertebrate Toxicity:

- **LC50 Mysid Shrimp:** 256 mg/L 96 hours; 224 mg/L 48 hours **LC50 Daphnia Magna**

#### *Perchloroethylene*

Freshwater Fish Toxicity:

- **LC50 (Static) Fathead Minnow:** 18.4 ppm 96 hour(s)
- **LC50 (Static) Bluegill Sunfish:** 12.9 ppm 96 hour(s)
- **LC50 (Static) Rainbow Trout:** 5 ppm 96 hour(s)
- **LC50 (Static) Sheephead Minnow:** 29.4-52.2 ppm 96 hour(s)

Invertebrate Toxicity:

- **LC50 Mysid Shrimp:** 10.2 ppm 96 hours; 18 mg/L 48 hours **LC50 Daphnia Magna**

## •12.2 Persistence and degradability

Biodegradability Result: may occur in groundwater, but will be very slow compared with evaporation

## •12.3 Bioaccumulative potential

No further relevant information available.

## •12.4 Mobility in soil

No further relevant information available.

## •Additional ecological information:

## •12.5 Results of PBT and vPvB assessment

•PBT: Not applicable

•vPvB: Not applicable

•12.6 Other adverse effects No further relevant information available.

## 13. Disposal considerations

### •13.1 Waste treatment methods

#### • Recommendation

All hazardous materials must be solidified and disposed of in an EPA approved class one facility. When disposing of chemicals, contact local, state, and federal environmental agencies to fully understand the necessary regulations governing the disposal of chemical wastes.

•Uncleaned packaging: must be vented and thoroughly dried prior to crushing and recycling

•Recommendation: Disposal must be made according to official regulations.

## 14. Transport information

### •14.1 Un-Number

UN1593

DOT, ADR, IMDG, IATA

### •14.2 Proper shipping name

Spot Cleaning Fluid SP-444

DOT, ADR, IMDG, IATA

### 14.3 Transport hazard class(es)

6.1

### •Label

Spot Cleaning Fluid SP-444

### •14.4 Packing group

III

## Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

**DOT, ADR, IMDG, IATA**

### 15. Regulatory information

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **United States (USA)**

• **SARA**

• **Section 302**

Reportable Quantities:

Ingredient name	CAS #	CERCLA Reportable Quantities
Dichloromethane	75-09-2	1000 lb (Final RQ)
Perchloroethylene	127-18-4	1 lb (Final RQ) 100 lb (Final RQ)

• **Section 313 (Specific toxic chemical listings):**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredient name	CAS #	SARA 313 – Threshold Values %
Dichloromethane	75-09-2	0.1
Perchloroethylene	127-18-4	0.1

• **SARA 311/312 Hazards:**

Acute Health Hazard

Chronic Health Hazard

• **Proposition 65 (California):**

Ingredient name	CAS #	California Prop 65	Prop 65 NSRL	Category
Dichloromethane	75-09-2	Carcinogen	200 mg/day 50 mg/day	Carcinogen
Perchloroethylene	127-18-4	Carcinogen		Carcinogen

• **State Regulations:**

○ **States Right to Know:**

- California: Listed
- Massachusetts: Listed
- New Jersey: Listed
- Pennsylvania: Listed
- Rhode Island: Listed

• **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.



## Safety Data Sheet

according to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 03.22.2016

Revision Date 03.22.2016

---

### 16. Other information

#### Notice to reader

This data is furnished gratuitously independent of sale of the product and only for your investigation and independent verification while data is believed to be correct, IMAGE TECHNOLOGY shall in no event be liable or responsible for damages whatsoever, directly or indirectly, resulting from the publication or use of or reliance upon data contained herein. No warranty, either implied or expressed, of merchantability of fitness or of any nature with respect to the product or to the data is made herein. You are urged to obtain data sheets for all IMAGE TECHNOLOGY materials you buy, process, use, or distribute, and are encouraged to advise anyone working with or exposed to such materials of the information contained herein.