

## SAFETY DATA SHEET

### S-10 CLEANING SOLVENT

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** S-10 CLEANING SOLVENT

**PRODUCT CODE:** #S10

**PRODUCT USE:** General cleaning solvent for epoxy, urethane, mma, vinyl ester, and other coatings

**MANUFACTURER**

DUDICK, INC.  
1818 MILLER PARKWAY  
STREETSBORO, OH, 44241  
330-562-1970

**24 HR. EMERGENCY TELEPHONE NUMBER**

**CHEM-TEL (US Transportation):** (800)255-3924  
**CHEM-TEL (International Transportation):** +01-813-248-0585

#### 2. HAZARDS IDENTIFICATION

**CLASSIFICATION:**

Specific target organ toxicity - single exposure - Respiratory tract irritation - Category 3

Aspiration hazard - Category 1

Specific target organ toxicity - repeated exposure - Category 2

Flammable Liquids - Category 2

Toxic to Reproduction - Category 2

Skin Irritant - Category 2

Hazardous to the Aquatic Environment - Acute - Category 2

**GHS LABEL ELEMENTS:**



**SIGNAL WORD:** No data available for this product.

**HAZARD STATEMENTS:**

H304 May be fatal if swallowed and enters airways.

H225 Highly Flammable liquid and vapor

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility for the unborn child .

H373 Causes damage to organs through prolonged or repeated exposure

H401 Toxic to aquatic life

**PRECAUTIONARY STATEMENTS :**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P240 Ground/bond container and receiving equipment.

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P241 Use explosion-proof electrical/ventilating/lighting/mixing/ equipment.  
P370+P378 In case of fire: Use foam, dry chemical, or carbon dioxide for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P202 Do not handle until all safety precautions have been read and understood.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P501 Dispose of contents/container in accordance with local, regional, and federal regulations.  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233 Keep container tightly closed.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash all contacted body parts thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P331 Do NOT induce vomiting.

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Weight %	CAS Number
4-Methyl-2-pentanone	45% to 60%	108-10-1
Toluene	40% to 50%	108-88-3

No further information available for this product.

### 4. FIRST AID MEASURES

**EYES:** Hold open eyelids and flush with copious amounts of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.

**SKIN:** Wash with soap and water. Contact Physician if irritation persists.

**INGESTION:** Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Consult physician or poison center immediately.

**INHALATION:** Consult a physician after significant exposure. Move person to fresh air. If unconscious place in recovery position and seek medical advice.

**NOTES TO PHYSICIAN:** No data available for this product.

### 5. FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Alcohol resistant foam; Carbon Dioxide (CO<sub>2</sub>); dry chemical; dry sand; use water to keep containers cool.

**UNSUITABLE EXTINGUISHING MEDIA:** Do not use high pressure water jet as this may spread the area of the fire.

**SPECIFIC HAZARDS IN CASE OF FIRE:** Releases flammable vapors below normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Flammable vapors may be heavier than air and travel long distances along the ground before igniting and flashing back to vapor source. Move containers from fire area if it can be done without risk. Cool containers with flooding quantities of water until well after fire is out.

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**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTION FOR FIRE FIGHTERS:** Wear self-contained breathing apparatus (SCBA) in positive pressure mode and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Isolate area; ensure adequate ventilation; remove all sources of ignition; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes and clothing; keep unnecessary and unprotected personnel from entering the involved area.

**ENVIRONMENTAL PRECAUTIONS:** Stop leak if you can do so without risk. Use water spray to reduce vapors. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Use non-sparking tools. Flush area with water. Prevent from entering into soil, ditches, sewers, waterways, and/or groundwater.

**METHOD AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Dike large spills and place materials in salvage containers. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Bond and ground containers when transferring liquid. Keep container tightly closed when not in use.

Use only non-sparking tools. Extinguish all ignition sources. Containers must be properly grounded before beginning transfer. Handle empty containers with care; vapor/residue may be flammable. This material may attack some forms of plastics, rubbers, and coatings. Wear recommended personal protective equipment. Observe precautions pertaining to confined space entry. Do not breathe vapors or spray mist.

**CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:** Store in a cool, dry, well ventilated, flammable liquid storage area.

## 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

### EXPOSURE LIMITS

Components	CAS	Limits
4-Methyl-2-pentanone	108-10-1	ACGIH TLV; TWA 20 ppm, STEL 75 ppm NIOSH REL; TWA 50 ppm, ST 75 ppm
Toluene	108-88-3	ACGIH TLV; TWA 20 ppm 8 hours PSHA PEL; TWA 200 ppm 8 hours

**ENGINEERING CONTROLS:** Ventilation:

Use local exhaust ventilation, or other engineering controls to maintain airborne levels requirements or guidelines.

General ventilation may not be sufficient.

Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.

### PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection

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must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**EYES PROTECTION:** Splash-proof chemical goggles.

**SKIN PROTECTION:** Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Hand protection: Use chemical resistant gloves. Consult glove manufacturer for recommendations.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. Wash contaminated clothing before reuse. Eye wash stations and emergency showers should be available.

**OTHER USE PRECAUTIONS:** The type and degree of personal protective equipment will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

**COMMENTS:** None.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**COLOR:** Clear

**FLASH POINT AND METHOD:** 4.00 No data available for this product.

**AUTO-IGNITION TEMPERATURE:** Not Determined.

**BOILING POINT/RANGE:** 110.0 C

**MELTING POINT:** Not Determined.

**VAPOUR PRESSURE:** Not determined.

**VAPOUR DENSITY:** Heavier than air.

**SOLUBILITY:** Slight in water.

**ODOR/THRESHOLD:** Organic solvent

**LOWER / UPPER FLAMMABLE LIMITS:** 1.2 TO 8.0

**DENSITY:** 0.8371

**EVAPORATION RATE:** Slower than ether.

**PARTITION COEFFICIENT:** Not determined.

**pH:** Not Applicable.

**DECOMPOSITION TEMPERATURE:** Not determined.

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** This product is stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not occur under normal conditions.

**CONDITIONS TO AVOID:** Avoid heat, flame, sparks, and other sources of ignition.

**MATERIALS TO AVOID:** Acids, Aldehydes, Alkalies, Amines, Ammonia, Oxidizing agents, Reducing agents, Chlorine compounds. May form explosive mixtures with chromic anhydride, chromyl

alcohol, hexachloromelamine, hydrogen peroxide, permonosulfuric acid, potassium tertbutoxide, and thioglycol.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal conditions.

Incomplete combustion may generate carbon monoxide, carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:**

**ACUTE EFFECTS:**

**EYE CONTACT:** May cause eye irritation. Corneal injury is unlikely.

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**SKIN CONTACT:** May be absorbed through the skin in harmful amounts. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Prolonged or repeated skin contact may cause irritation. Skin absorption of material may produce systemic toxicity.

**INHALATION:** High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness and even death). May cause headaches and dizziness. May cause serious disturbances of heart rhythm. Vapors irritating to eyes and respiratory tract. Repeated overexposure has caused a hearing loss in laboratory animals. Prolonged or repeated exposure may cause liver and kidney damage. Intentional prolonged overexposure to high levels of vapors can produce abnormal behavior, convulsions, hallucinations, delirium, nervous system damage, serious disturbances of heart rhythm and sudden death.

**INGESTION:** Overexposure may cause nausea, diarrhea, and/or vomiting. Ingestion may cause gastrointestinal tract irritation.

**TARGET ORGAN:** May cause respiratory irritation., May cause drowsiness or dizziness.

Target Organs: Central nervous system, Respiratory system.

**CHRONIC EFFECTS:** Overexposure may cause nervous system damage. Significant repeated exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin, and/or eyes.

Damage to fetus possible. Suspected human reproductive toxicant.

4-Methyl-2-pentanone is listed as a Group B possible carcinogen by IARC.

**TOXICITY VALUES:** Toluene

Acute toxicity

LD50 Oral - rat - > 5,580 mg/kg

LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m<sup>3</sup>

LD50 Dermal - rabbit - 12,196 mg/kg

Skin corrosion/irritation Skin - rabbit Result: Skin irritation - 24 h

Germ cell mutagenicity: rat Liver DNA damage

isobutyl methyl ketone

Acute Toxicity

Oral LD-50: (Rat): 2,080 mg/kg

Dermal LD-50: (Rabbit): >10 ml/kg

LC50 (Rat, 4 h): 2000 - 4000 ppm

Skin corrosion/irritation: (Rabbit, 72 h): none

Serious eye damage/eye irritation: (Rabbit): slight to moderate

Carcinogenicity IARC 2B: possibly carcinogenic to humans.

Aspiration hazard: May be harmful if swallowed and enters airways.

Contains an IARC (International Agency for Research on Cancer) 2B material. IARC 2B is a classification for possible human carcinogen based on sufficient evidence on carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

## 12. ECOLOGICAL INFORMATION

### **PERSISTENCE AND DEGRADABILITY:**

No data available for this product.

### **BIO-ACCUMULATIVE POTENTIAL:**

This product does not accumulate or biomagnify in the environment. This product is partially biodegradable.

### **MOBILITY IN SOIL:**

This material is a mobile liquid.

### **OTHER ADVERSE EFFECTS:**

The most sensitive known aquatic group to any component of this product is:

Tidewater Silversides 250 ppm or mg/L (24 hour exposure).

Keep out of sewers and natural water supplies.

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The substance is toxic to aquatic organisms.

**ECOTOXICOLOGICAL OTHER INFORMATION:**

May be harmful to aquatic life

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Dispose of according to local, state, and federal regulations through a licensed disposal facility.

**14. TRANSPORT INFORMATION**

**UN NUMBER:** 1263

**UN PROPER SHIPPING NAME:** Paint Related Materials

**TRANSPORT HAZARD CLASS:**

3

**TRANSPORT HAZARD SUBCLASS:**

Not applicable.

**PACKING GROUP:** II

**MARINE POLLUTANT Y/N:**

No

**SPECIAL PRE-CAUTIONS:** None

**15. REGULATORY INFORMATION**

**U.S. REGULATIONS:**

All components of this product are listed on or exempt from the TSCA Inventory.

**U.S. SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:**

**FIRE:** Yes

**PRESSURE GENERATING:** No

**REACTIVITY:** No

**ACUTE:** Yes

**CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:**

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Chemical Name	Weight %	CAS
4-Methyl-2-pentanone	45% to 50%	108-10-1
Toluene	45% to 50%	108-88-3

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** No data available for this product.

**STATE REGULATIONS:**

The following chemicals are California Proposition 65 reportable:

Chemical Name	CAS
4-Methyl-2-pentanone	108-10-1
Toluene	108-88-3

**Massachusetts Right To Know Components**

Chemical Name	CAS
4-Methyl-2-pentanone	108-10-1

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Toluene	108-88-3
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**Pennsylvania Right To Know Components**

<b>Chemical Name</b>	<b>CAS</b>
4-Methyl-2-pentanone	108-10-1
Toluene	108-88-3

**New Jersey Right To Know Components**

<b>Chemical Name</b>	<b>CAS</b>
4-Methyl-2-pentanone	108-10-1
Toluene	108-88-3

**OTHER GOVT. REGULATIONS:** No other information available

**16. OTHER INFORMATION**

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