

**SAFETY DATA SHEET****1. Identification**

**Product Name:** PS-2L/KK #355 Remover  
**Product Code:** B13290  
**SDS Date:** 8/26/2019  
**Use:** Industrial. This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

Chemisphere Corporation  
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St. Louis, MO 63139

**General Information: 314-644-1300**  
**CHEMTREC: 800-424-9300**

**2. Hazard(s) identification****GHSClassification**

Serious eye damage (Category 1)  
Skin corrosion (Category 1A)  
Specific target organ toxicity - repeated exposure Inhalation (Category 2) Central nervous system  
Specific target organ toxicity - repeated exposure Oral (Category 2) Liver, Blood  
Specific target organ toxicity - single exposure (Category 3)  
Respiratory system Central nervous system H335  
Carcinogenicity (Category 1B)  
Germ cell mutagenicity (Category 1B)  
Reproductive toxicity (Category 2)

**Pictogram**

**Signalword** Danger

**HazardStatement**

Causes serious eye damage.  
Causes severe skin burns and eye damage.  
May cause damage to organs through prolonged or repeated exposure.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause cancer.  
May cause genetic defects.  
Suspected of damaging fertility or the unborn child.

**Precautionary**

Do not breathe mist/vapors/spray. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Obtain special instructions before use. Use only non-sparking tools. Use only outdoors or in



a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/face protection. Get medical advice/ attention if you feel unwell. If exposed or concerned: Get medical advice/ attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing and wash before use. Rinse skin with water shower. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed. Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

**Hazards not otherwise classified:**

Methylene Chloride has no flash point in a conventional closed tester, but it forms flammable vapor-air mixtures at approximately 100C (212F), or higher. Product forms flammable vapor-air mixtures. Lower temperature increases the difficulty of getting it to ignite; will release invisible vapors that form flammable mixtures that might ignite or explode. Vapors can travel considerable distances to an ignition source. Toxic gasses will form upon combustion. Material can accumulate static charges which can cause an incendiary electrical discharge. Material will partially emulsify and sink in water. It has a low boiling point of 40C (104F).

**3. Composition/information on ingredients**

Name	CAS	Concentration
Acetic Acid	64-19-7	1-20
Methylene Chloride	75-09-2	50-100
Toluene	108-88-3	1-20
Formic Acid	64-18-6	1-20

**4. First-aid measures**

<b>General Advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If Inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In Case of Skin Contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If Swallowed</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Indications of any immediate medical attention and special treatment needed**

No data available

**5. Fire-fighting measures**

<b>Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special Hazards</b>	Carbon oxides, Hydrogen chloride gas



**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

**Further Information** No data available

## 6. Accidental release measures

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

**Safe Handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from heat, sparks and open flame. "Empty" containers retain product residue (liquid and/or vapor) that can be dangerous. Do NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition due to explosion or fire hazard. Empty drums should be completely drained and properly bunged and promptly returned to a reconditioner or other proper disposal.

**Safe Storage** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure controls/personal protection

Name		CAS	
Acetic Acid		64-19-7	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
10 ppm	No data available	10 ppm	15 ppm
Methylene Chloride		75-09-2	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
25 ppm	125 ppm	50 ppm	Not Available
Toluene		108-88-3	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
100 ppm	150 ppm	20 ppm	Not Available
Formic Acid		64-18-6	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
5 ppm	Not Available	5 ppm	10 ppm



<b>Engineering Control</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Eye/Face Protection</b>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin Protection</b>	Handle with fluorinated rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>Body Protection</b>	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory Protection</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**9. Physical and chemical properties**

<b>Appearance</b>	Methylene Chloride	Liquid
<b>Odor</b>	Methylene Chloride	No data available
<b>Odor Threshold</b>	Methylene Chloride	No data available
<b>pH</b>	Methylene Chloride	No data available
<b>Melting/Freezing Point</b>	Methylene Chloride	-97.0 °C (-142.6 °F)
<b>Initial Boiling Point/Range</b>	Methylene Chloride	40.0 °C (104.0 °F)
<b>Flash Point</b>	Methylene Chloride	No flash point as defined by method. (Flash point may appear and drop as methylene chloride evaporates)
<b>Evaporation Rate</b>	Methylene Chloride	0.71
<b>Flammability</b>	Methylene Chloride	No data available
<b>Upper Explosion Limit</b>	Methylene Chloride	19%
<b>Lower Explosion Limit</b>	Methylene Chloride	12%
<b>Vapor Pressure</b>	Methylene Chloride	470.9 hPa (353.2 mmHg) at 20.0 °C (68.0 °F)
<b>Vapor Density</b>	Methylene Chloride	2.93 - (Air = 1.0)
<b>Relative Density</b>	Methylene Chloride	1.32 g/cm <sup>3</sup>
<b>Water Solubility</b>	Methylene Chloride	slightly soluble



Partition Coefficient	Methylene Chloride	log Pow: 1.25
Auto Ignition Temperature	Methylene Chloride	556.1 °C (1,033.0 °F) 662.0 °C (1,223.6 °F)
Decomposition Temperature	Methylene Chloride	No data available
Viscosity	Methylene Chloride	No data available

## 10. Stability and reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Heat, flames and sparks. Exposure to sunlight.
Incompatible materials	Alkali metals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium, Strong acids and strong bases, Vinyl compounds
Hazardous Decomposition Products	No data available

## 11. Toxicological information

Name	CAS
Acetic Acid	64-19-7
LD50 Oral - Rat - 3,310 mg/kg	
LC50 Inhalation - Mouse - 1 h - 5620 ppm	
LD50 Dermal - Rabbit - 1,112 mg/kg	
<b>Skin corrosion/irritation</b>	Result: Causes severe burns.
<b>Serious eye damage/eye irritation</b>	Result: Corrosive to eyes
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and/or perforation of the esophagus and pylorus, pancreatitis, hematuria,



anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonary edema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness.,

Name	CAS
Methylene Chloride	75-09-2
LD50 Oral - Rat - > 2,000 mg/kg	
LC50 Inhalation - Rat - 52,000 mg/m3	
LD50 Dermal - Rat - > 2,000 mg/kg	
<b>Skin corrosion/irritation</b> Result: Irritating to skin. - 24 h	
<b>Serious eye damage/eye irritation</b> Result: Irritating to eyes. - 24 h	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> Rat DNA damage	
<b>Carcinogenicity</b> IARC: 2B - Group 2B: Possibly carcinogenic to humans (Methylene chloride) NTP: Reasonably anticipated to be a human carcinogen (Methylene chloride) OSHA: OSHA specifically regulated carcinogen (Methylene chloride)	
<b>Reproductive</b> No data available	
<b>Additional information</b> Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood., Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Paresthesia., Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema. Effects may be delayed., Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material., Abdominal pain	



Name	CAS
Toluene	108-88-3
LD50 Oral - Rat - > 5,580 mg/kg	
LC50 Inhalation - Rat - 4 h - 12,500 - 28,800 mg/m3	
LD50 Dermal - Rabbit - 12,196 mg/kg	
<b>Skin corrosion/irritation</b>	Result: Skin irritation - 24 h
<b>Serious eye damage/eye irritation</b>	Result: No eye irritation
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	Rat - Liver, DNA damage
<b>Carcinogenicity</b>	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)
<b>Reproductive</b>	Experiments have shown reproductive toxicity effects in male and female laboratory animals.
<b>Additional information</b>	Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals., Central nervous system

Name	CAS
Formic Acid	64-18-6
LD50 Oral - Rat - 730 mg/kg	
LC50 Inhalation - Rat - 4 h - 7.4 mg/l	
Dermal: No data available	
<b>Skin corrosion/irritation</b>	Result: Severe skin irritation
<b>Serious eye damage/eye irritation</b>	Result: Severe eye irritation
<b>Respiratory or skin sensitization</b>	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting



## 12. Ecological information

Name	CAS	Toxicity
Acetic Acid	64-19-7	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l - 96 h Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - > 300.82 mg/l - 48 h
Methylene Chloride	75-09-2	LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h NOEC - Cyprinodon variegatus (sheepshead minnow) - 130 mg/l - 96 h EC50 - Daphnia magna (Water flea) - 1,682.00 mg/l - 48 h
Toluene	108-88-3	LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h, NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d, EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h, Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h, EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h, EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h
Formic Acid	64-18-6	LC50 - Leuciscus idus (Golden orfe) - 46 - 100 mg/l - 96 h, EC50 - Daphnia magna (Water flea) - 34.2 mg/l - 48 h, Pseudomonas putida - 46.7 mg/l - 17 h

## 13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. Transport information

Proper Shipping Name	Corrosive Liquids, Toxic, n.o.s. (Formic Acid, Dichloromethane)
Hazard Class	8, (6.1)
Identification Number	UN2922
Packing Group	II
Label	Corrosive, Toxic





**15. Regulatory information**

Name	CAS
Acetic Acid	64-19-7
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	RQ = 5,000 lbs
<b>SARA 311/312</b>	No components were identified
<b>PROP 65</b>	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	
Name	CAS
Methylene Chloride	75-09-2
<b>SARA 302/304</b>	No components were identified
<b>SARA 313 CERCLA</b>	313
<b>SARA 311/312</b>	RQ=1000 lbs
<b>PROP 65</b>	Acute Health Hazard, Chronic Health Hazard Cancer Hazard
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory. This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.	
Name	CAS
Toluene	108-88-3
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	RQ=1,000 lbs
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	Developmental Hazard
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	



Name	CAS
Formic Acid	64-18-6
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	RQ=5,000 lbs
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

**16. Other information, including date of preparation or last revision**

**SDS Date:**

**Disclaimer:**

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