

**SECTION 1: PRODUCT AND COMPANY INFORMATION**

**Manufacturer** Caldwell Chemical Coatings Corporation 29 Ardmore Hwy - PO Box 898 - Fayetteville, TN 37334  
(931) 433-1571 – [info@caldwellcoatings.com](mailto:info@caldwellcoatings.com) - [www.caldwellcoatings.com](http://www.caldwellcoatings.com)  
**Trade Name** ALUSTEEL A.D.  
**Chemical Family:** Coatings  
**Product ID** 63-4976  
**Recommended Uses** Industrial Coating

**Emergency Phone Number: (800) 535-5053 8 A.M. – 5 P.M.**

**SECTION 2: HAZARD IDENTIFICATION**

**Physical Hazards:** Flammable Liquids – Category 2 - Highly flammable liquid and vapor.  
**Health Hazard:** Acute toxicity, oral - Category 4 – Harmful if swallowed.  
Acute toxicity, inhalation - Category 4 – Harmful if inhaled.  
Skin corrosion/irritation - Category 2 – Causes skin irritation.  
Eye damage/eye irritation - Category 1 - Causes serious eye damage  
Specific target organ toxicity, single exposure - Category 3 - May cause respiratory irritation. May cause drowsiness or dizziness.  
Specific target organ toxicity, repeated exposure - Category 1 - Causes damage to organs (auditory organ, central nervous system) through prolonged and repeated exposure.  
Aspiration hazard - Category 2 - May be harmful if swallowed and enters airways.

**Precautionary Statements:**  
**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection. Avoid release to the environment.  
**Response:** IN CASE OF FIRE: Use dry chemical, foam or water fog to extinguish. Do not use direct water stream. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see this label). Rinse mouth. Do NOT induce vomiting. Collect spillage  
**Storage:** Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Environmental Hazards:** Acute Aquatic Toxicity – Category 3 – Harmful to aquatic life.  
Chronic Aquatic Toxicity – Category 3 – Harmful to aquatic life with long lasting effects.

**Pictograms:**



**Signal Word:** DANGER

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS Number	Percentage (wt.)
MIBK	108-10-1	33.3
Xylene	1330-20-7	23.3
Methyl Ethyl Ketone	78-93-3	14.7
Ethyl Benzene	100-41-4	4.1
1-Methoxy-2-Propanol Acetate	108-65-6	2.4
Butyl Cellosolve	111-76-2	2.6
1, 2, 4 Trimethyl Benzene	95-63-6	0.1
1, 3, 5 Trimethyl Benzene	108-67-8	0.1

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush eyes with water lifting upper and lower lids occasionally for 30 minutes. Seek immediate medical attention.  
**Skin Contact:** If on skin (or hair): immediately take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Decontaminate or discard shoes. See First Aid on this label for specific treatment.  
**Inhalation:** If inhaled: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if you feel unwell.  
**Ingestion:** Do not induce vomiting. Wash hands or other contact areas thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Give victim a quart of water. Never give anything by mouth to a person who is unconscious or having convulsions. Seek Medical Attention.

**SECTION 5: FIREFIGHTING MEASURES****Basic Firefighting Procedures**

Use dry chemical, foam water fog or CO<sub>2</sub>. Keep containers tightly closed. Isolate from heat, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat. Minimize breathing gases, vapor, smoke, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

**Hazardous Combustion Products**

Carbon dioxide, carbon monoxide and others in the case of incomplete combustion.

**Empty Container Warning:**

Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Refer to Section 8: Exposure Control and Personal Protection****Emergency Action**

Isolate release area and keep unnecessary people away. Exercise caution regarding personnel safety and exposure. Avoid breathing solvent vapor. Ensure adequate ventilation. Avoid sparks, flames, and

**Protective equipment:** Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

**For containment:** Contain large spills with absorbent diking material such as sawdust and recover for reuse when possible.

**For cleaning up:** Use absorbent material to pick up small spills.

**Waste disposal:** Soak liquids with sawdust or rags and remove. Flush with water if possible. Avoid skin contact. Disposal should be in accordance with local, state, and federal regulations.

**Notification:** Any spill or release to navigable water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.

**SECTION 7: HANDLING AND STORAGE****Refer to Section 8: Exposure Control and Personal Protection****Handling**

Educate and train employees in the safe use and handling of this product. Wear proper protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not ingest. NIOSH/OSHA approved respirator types suitable for materials in Section II recommended. Approved chemical/mechanical filters recommended when ventilation is restricted. For industrial use only. Use good hygiene practices when handling product, including changing and laundering work clothes. Contaminated leather shoes and leather goods should always be destroyed. Get medical attention if you are exposed and feel unwell. The shipping and storage container is not designed to be pressurized. Containers should be completely emptied and disposed of properly. Empty containers may contain residue or vapors. Do not cut, grind, drill, weld or reuse containers.

**Storage**

Store in a cool, dry location and in accordance with good industrial practices. Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidizers.

**SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION****Exposure Guidelines**

Component	TLV-TWA (ppm)	TLV-STEL (ppm)	PEL-TWA (ppm)
1,2,4 Trimethyl Benzene	25		
Xylene	100	150	435 mg/m <sup>3</sup>
Butyl Alcohol	100		
Butyl Cellosolve	25	50	
MIBK	100	50	100
Butyl Acetate	150		
1,3,5 Trimethyl Benzene	25		

**Engineering Controls**

Use appropriate ventilation to maintain airborne concentration limits below recommended exposure limits. Local exhaust may be necessary if dusts or sprays are generated.

**Eye and Face Protection**

Wear chemical goggles with side shield or face shield.

**Skin Protection**

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Wear chemical resistant gloves made of Nitrile, neoprene or natural rubber gloves. Long sleeve pants and shirt. Impervious sleeves and apron advisable when transferring product from container to production equipment. If conditions dictate, wear protective clothing made of Tychem(R) SL or similar material for handling wet material or Tyvek(R) or similar disposable clothing for handling dry material.

**Respiratory Protection** NIOSH/MSHA approved respirator should be worn where dust, mist or sprays are expected. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation equipment. Approved chemical/mechanical filters recommended when ventilation is restricted.

**Other Protective Equipment** Rubber boots, rubber apron, PVC clothing, hard hat, as conditions dictate in order to prevent personal contact with this product and its solutions. Use protective creams where skin contact is likely. Remove and wash contaminated clothing before reuse. Eye wash fountain, quick drench safety shower and wash area should be provided in immediate work area.

**Hygienic Practices**

Wash hands before eating or smoking. Smoke in designated areas only.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance/Physical State</b>	Opaque Liquid	<b>Flash Point</b> (°F - Setflash)	50
<b>Specific Gravity</b> (Water=1)	1.0608	<b>Upper/Lower Flammability Limits</b> (Vol. %)	Not Available
<b>pH</b>	Not Determined	<b>Auto-ignition Temperature</b> (AIT) (°F/°C)	Not Available
<b>Solubility in Water</b>	Not Available	<b>Decomposition Temperature</b>	Not Determined
<b>Odor</b>	Not Determined	<b>Vapor Pressure</b> (psi @ 70°F)	55
<b>Odor Threshold</b>	Not Determined	<b>Vapor Density</b> (Air=1)	Heavier Than Air
<b>Melting/Freezing Point</b>	Not Available	<b>Partition Coefficient</b> (n-octanol/water)	Not Determined
<b>Boiling Range</b> (°F)	165 – 418 F	<b>Viscosity</b> (cSt) 104°F/40°C	Not Available
<b>Initial Boiling Point</b> (°F/°C)	Not Available	<b>Critical Temperature</b>	Not Determined
<b>Other Information</b>			
<b>Upper/Lower Explosive limit</b>	Lower (%) 0.9 - Upper (%) 30	<b>VOCS</b> lab/gal	5.7
<b>Evaporation Rate</b>	Faster than Ether	<b>VOCS</b> grams/liter	684
Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Those should be requested separately.			

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Does not react under normal conditions of use.

**Chemical Stability:** Stable under normal conditions of use.

**Stability/Incompatibility:** None known.

**Conditions to Avoid:** None known.

**Hazardous Polymerization:** Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION****Toxicological effects:**

**Xylene:** Acute oral toxicity (LD-50 oral) 4,300 mg/kg (Rat) 1,590 (Mouse) 6,670 mg/kg (Rat) 3,523 – 8,600 mg/kg (Rat) 5,627 mg/kg (Mouse) Acute inhalation toxicity (LC-50) 6,350 mg/l for 4 h (Rat) 3,907 mg/l for 6 h (Mouse) 8,000 mg/l for 4 h (Rat)

**Butyl Alcohol:** LD50 Rabbit Dermal Acute 3400 mg/kg LC50 Rat Inhalation 8000 ppm, 4 Hours LD50 Rat Oral 790 mg/kg LD50 Mouse Other 377 mg/kg Rat 310 mg/kg

**Likely Routes of Exposure:** Eyes, Skin and Inhalation.

**Symptoms:** Serious eye damage may occur. May include Irritation to respiratory tract, headache, dizziness and nausea. Skin irritation may include redness, drying, and cracking of the skin. Ingestion can result in gastrointestinal and respiratory discomfort. Refer to Sections 2 and 4 for recommended actions.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity:**

**Xylene:** Acute aquatic, fish Value: 2 mg/l Method of testing: LC50 Fish, species: Roccus saxatilis Duration: 96h Acute aquatic, algae Value: > 3, 2 mg/l Method of testing: IC50 Algae, species: Selenastrum Capricornum Duration: 72h Acute aquatic, Daphnia Value: 8, 5 mg/l Method of testing: EC50 Daphnia, species: Daphnia magna Duration: 48h

**1, 3, 5 Trimethyl Benzene:** Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1

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and 10 mg/L in most sensitive species tested).Fish Acute & Prolonged ToxicityLC50, Japanese medaka (*Oryzias latipes*): 8.6 mg/lLC50, goldfish (*Carassius auratus*), flow-through, 96 h: 12.52 mg/aquatic Invertebrate Acute ToxicityLC50, water flea *Daphnia magna*: 50 mg/lEC50, water flea *Daphnia magna*, static, 24 h, immobilization: 50 mg/l Product Name: Rinse T1100 Issue Date: 2007.03.21Aquatic Plant ToxicityEC50, alga *Scenedesmus* sp., biomass growth inhibition, 48 h: 25 mg/l

**1, 2, 4 Trimethyl Benzene:** Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1and 10 mg/L in most sensitive species tested).Fish Acute & Prolonged ToxicityLC50, fathead minnow (*Pimephales promelas*): 7.7 mg/l LC50, rainbow trout (*Oncorhynchus mykiss*), static, 24 h: 5 mg/l Aquatic Invertebrate Acute Toxicity EC50, water flea *Daphnia magna*, 48 h: 3.6 mg/lLC50, grass shrimp (*Palaemonetes pugio*), 96 h, survival: 5.4 mg/l

**Butyl Alcohol (CAS 71-36-3)** Aquatic Crustacea EC50 Water flea (*Daphnia magna*) 1897 - 2072 mg/l, 48 hours\* Estimates for product may be based on additional component data not shown. Fish LC50 Bluegill (*Lepomis macrochirus*) 100 - 500 mg/l, 96 hours

**Butyl Cellosolve:** Fish Acute & Prolonged Toxicity LC50, bluegill (*Lepomis macrochirus*), 96 h: 820 - 1,490 mg/l LCSO, rainbow w trout *Oncorhynchus mykiss*, 96 h: 1,700 mg/I Aquatic Invertebrate Acute Toxicity LCSO, water flea *Daphnia magna*: 835 mg/I EC50, water flea *Daphnia magna*, immobilization : 1,600 - 2,500 mg/l LC50, grass shrimp (*Palaemonetes pugio*), static, 96 h: 5.4 mg/I LCSO, common shrimp *Crangon stalic*, 96 h: 550 - 950 mg/I Aquatic Plant Toxicity ECSO, green alga *Pseudokirchneriella subcapitata* (formerly known as *Selenastrum capricornutum*) , biomass growth inhibition, 72 h: 911 mg/I Toxicity to Micro-organisms ICSO; bacteria: > 1,000 mg/l

**1-Methoxy-2-Proponal Acetate:** Acute toxicity Fish Product: LC-50 (Fathead Minnow, 96 h): 50 mg/l NOEC: (Fathead Minnow, 96 h): 25 mg/l Aquatic Invertebrates Product: EC-50 (daphnid, 48 h): > 480 mg/l NOEC: (daphnid, 48 h): 470 mg/l LC-50 (Fathead Minnow, 96 h): 18 mg/l

**Persistence and Biodegradability:** Xylene: Chemical oxygen demand (COD) Value: 5 Method of testing: COD Biological oxygen demand (BOD) Value: 0, 55 Method of testing: BOD

**Bioaccumulative Potential:** Not Available

**Mobility in Soil:** The product is insoluble in water and will spread on the water surface.

**SECTION 13: DISPOSAL CONSIDERATION**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and local regulations. Regulations may vary in different locations. Review Federal, State, Provincial and Local government regulations prior to disposal. Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

**SECTION 14: TRANSPORT INFORMATION**

**U.S. DOMESTIC NON-BULK (119 gal or less per container):** Not regulated U.S.

**DOMESTIC BULK**

**PROPER SHIPPING NAME:** FLAMMABLE LIQUID, Marine Pollutant

**IDENTIFICATION NUMBER:** UN1263

**HAZARD CLASS:** 3

**PACKING GROUP:** III

**LABEL:** 3

**SECTION 15: REGULATORY INFORMATION**

**U.S. Federal Regulations:**

**TSCA:** All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements.

**SARA 313 Components:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Component	CAS No.	Wt. %
1, 2, 4 Trimethyl Benzene	95-63-6	.01
Xylene	1330-20-7	16.6
Butyl Alcohol	71-36-3	4.1
Butyl Cellosolve	111-76-2	2.7
1, 3, 5 Trimethyl Benzene	108-67-8	.01

**SARA 311/312 Hazards:** Acute Health Hazard Fire Hazard

**OSHA Hazardous Components:** 1, 2, 4- Trimethylbenzene 95-63-6, 1, 3, 5- Trimethylbenzene 108-67-8, Xylene 1330-20-7

**OSHA Status hazardous based on the following criteria:** Considered: Irritant

**OSHA Flammability:** II

**Regulatory VOC** (less water and exempt solvent): 695 g/l

**U.S. State Regulations:**

**California Proposition 65:** None

**State Right to Know:** Butyl Alcohol: US. Pennsylvania Worker and Community Right-to-Know Law, Rhode Island RTK, Pennsylvania Worker and Community Right-to-Know Law, Massachusetts RTK - Substance List, Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

And New Jersey Worker and Community Right-to-Know Act

**Canada:**

Hazardous Products Act Information: WHMIS Classification

B3 FLAMMABLE Liquid with a Flash Point of 37.8°C or more but less than 93.3°C

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D2B Eye or Skin Irritant

Hazardous Products Act Information: Hazardous Ingredients This product contains the following ingredients which are Controlled Products and/or are on the Ingredient Disclosure List (Canadian HPA Section 13 and 14).1, 3, 5-Trimethylbenzene 108-67-8 1.1%

**Other:** This product does not contain nor is it manufactured with ozone depleting chemicals.

**HMIS RATINGS** - HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

**SECTION 16: OTHER INFORMATION**

**Disclaimer:** The information on this Safety Data Sheet reflects the latest information and data available on the hazards, properties and handling of this product under the recommended conditions of use. The use of this product being beyond the control of Caldwell Chemical Coatings Corp., no warranty express or implied is made if not used in accordance with directions or established safe practices.