

# Safety Data Sheet

Revision Date 01-19-2017  
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## SECTION 1 Identification of the substance/mixture and of the company/undertaking

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### Product identification used on label

|   |   |
|---|---|
| Product identifier  | 3245<br>TECTYL® 1431  |
| Details of the supplier of the safety data sheet                              | Daubert Chemical Company<br>4700 S. Central Avenue<br>Chicago, IL 60638<br>708-496-7350 |
| Emergency telephone number  | Chemtrec: (800) 424-9300  |
| Relevant identified uses of the substance or mixture and uses advised against | Corrosion Preventive Compound   |

## SECTION 2 Hazards identification

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Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard  
Symbols



|                              |   |
|------------------------------|---|
| GHS Classification           | Flammable Liquid Category 1<br>Reproductive Toxicity Category 1B<br>Skin Corrosion/Irritation Category 2<br>Serious Eye Damage/Eye Irritation Category 2A<br>Carcinogenicity Category 2<br>Hazardous to the aquatic environment - Acute Category 2<br>Hazardous to the aquatic environment - Chronic Category 3<br>Acute Toxicity - Oral Category 4 |
| Signal Word                  | Danger  |
| Hazard Statements            | Extremely flammable liquid and vapor<br>Harmful if swallowed<br>Causes skin irritation<br>Causes serious eye irritation<br>Suspected of causing cancer.<br>May damage fertility or the unborn child.<br>Toxic to aquatic life.<br>Harmful to aquatic life with long lasting effects.  |
| Unclassified Hazards (HNOC): | None Identified   |

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## Precautionary Statements

### Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.

### Response

Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment: None known  
Rinse mouth.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.

### Storage

Use dry chemical, water fog, CO2, foam or sand/earth for extinction.  
Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

## SECTION 3 Composition/information on ingredients

| Chemical Name                             | CAS #      | %         |
|---|------------|-----------|
| Hydrotreated distillate, light            | 68410-97-9 | 7 - 13    |
| Methyl N-amyl ketone                      | 110-43-0   | 5 - 10    |
| Methyl ethyl ketone                       | 78-93-3    | 5 - 10    |
| Hydrotreated light distillate (Petroleum) | 64742-47-8 | 3 - 7     |
| Methyl n-propyl ketone                    | 107-87-9   | 1 - 5     |
| Zinc Phosphate (Dihydrate) Pigment        | 7779-90-0  | 1 - 5     |
| Zinc oxide                                | 1314-13-2  | 0.5 - 1.5 |
| Xylene                                    | 1330-20-7  | 0.1 - 1   |
| Butyl benzyl phthalate                    | 85-68-7    | 0.1 - 1   |

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

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## SECTION 4 First aid measures

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|   |   |
|---|---|
| <b>Inhalation</b>   | If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.   |
| <b>Eyes</b>   | Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician. Seek medical advice if symptoms persist.   |
| <b>Skin Contact</b>   | Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Thoroughly wash or discard clothing and shoes before reuse.   |
| <b>Ingestion</b>  | Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS. Never give anything by mouth to an unconscious person. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal. If vomiting occurs, lean victim forward to reduce risk of aspiration into lungs. |
| <b>Most important symptoms/effects, acute and delayed</b>                     | See Section 11  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.  |

## SECTION 5 Firefighting measures

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|   |   |
|---|---|
| <b>Suitable extinguishing media:</b>        | Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.  |
| <b>Unsuitable extinguishing media:</b>      | No data available   |
| <b>Fire and/or Explosion Hazards</b>        | Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors may form flammable/explosive mixture with air.  |
| <b>Fire Fighting Methods and Protection</b> | Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling. |
| <b>Hazardous Combustion Products</b>        | Carbon dioxide, Carbon monoxide, Hydrocarbons, Sulfur oxides  |

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## SECTION 6 Accidental release measures

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

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

### **Methods and materials for containment and cleaning up**

Absorb or cover with dry earth, sand or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material. Collect and discard in accordance with local, state and national regulations. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

## SECTION 7 Handling and storage

### **Precautions for safe handling**

Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. Follow all protective equipment recommendations provided in Section VIII.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition. Store in a cool dry place.

### **Incompatible materials**

Strong oxidizing agents, Chlorine, Strong acids

## SECTION 8 Exposure controls/personal protection

### Control parameters

#### Chemical Name

#### ACGIH TLV

#### ACGIH STEL

#### OSHA PEL

Hydrotreated distillate, light

200 ppm 8 hours

Methyl N-amyl ketone

50 ppm

100 ppm TWA; 465 mg/m<sup>3</sup> TWA

Methyl ethyl ketone

200 ppm TWA; 590 mg/m<sup>3</sup> TWA

300 ppm STEL; 885 mg/m<sup>3</sup> STEL

200 ppm TWA; 590 mg/m<sup>3</sup> TWA

Hydrotreated light distillate (Petroleum)

200 mg/m<sup>3</sup>

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|                        |             |              |  |
|------------------------|-------------|--------------|--|
| Methyl n-propyl ketone |             | 150 ppm      | 200 ppm                                |
| Xylene                 | 100 ppm TWA | 150 ppm STEL | 100 ppm TWA; 435 mg/m <sup>3</sup> TWA |

|                               |  |
|-------------------------------|--|
| <b>Engineering Measures</b>   | Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits   |
| <b>Respiratory Protection</b> | Proper ventilation (at a minimum) will be required when handling this product. Use respirators (NIOSH approved) only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. |
| <b>Eye Protection</b>         | Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Do not wear contact lenses. Have an eye wash station available.  |
| <b>Skin Protection</b>        | Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.  |
| <b>Gloves</b>                 | Chemically resistant gloves  |

## SECTION 9 Physical and chemical properties (Typical, not specification)

|  |                            |
|--|----------------------------|
| <b>Physical State</b>                              | Viscous Liquid             |
| <b>Color</b>                                       | Black                      |
| <b>Odor</b>  | Slight Hydrocarbon Solvent |
| <b>Odor Threshold</b>                              | No data available          |
| <b>pH</b>  | No data available          |
| <b>Melting Point/freezing point, °C</b>            | No data available          |
| <b>Initial boiling point and boiling range, °C</b> | No data available          |
| <b>Flash Point</b>                                 | 19 °F(-7 °C)               |
| <b>Evaporation Rate</b>                            | No data available          |
| <b>Flammability (Solid, Gas)</b>                   | No data available          |
| <b>Lower Flammable/Explosive Limit, % in air</b>   | No data available          |
| <b>Upper Flammable/Explosive Limit, % in air</b>   | No data available          |
| <b>Vapor Pressure</b>                              | No data available          |
| <b>Vapor Density</b>                               | >1 (Air=1)                 |
| <b>Specific Gravity @ 25°C</b>                     | 1.17                       |
| <b>Solubility in Water</b>                         | Not determined             |
| <b>Octanol/Water Partition Coefficient</b>         | No data available          |
| <b>Autoignition Temperature</b>                    | No data available          |
| <b>Decomposition Temperature</b>                   | No data available          |
| <b>Viscosity</b>                                   | 34 sec, Zahn               |

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Volatiles, % by weight 29  
VOC, Material, lb/gal 3.0  
VOC, Material, grams/liter 359.9  
VOC minus exempt solvents & water, 3  
lb/gal

## SECTION 10 Stability and reactivity

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|   |  |
|---|--|
| <b>Reactivity</b>                         | No data available  |
| <b>Chemical stability</b>                 | Stable under normal conditions. Hazardous polymerization will not occur.                                   |
| <b>Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.                            |
| <b>Conditions to avoid</b>                | Contamination. Elevated temperatures. High temperatures.   |
| <b>Incompatible materials</b>             | Strong oxidizing agents, Chlorine, Strong acids  |
| <b>Hazardous decomposition products</b>   | Under normal conditions of use & storage, decomposition and hazardous decomposition products are unlikely. |

## SECTION 11 Toxicological information

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|   |  |
|---|--|
| <b>Likely Routes of Entry</b>                         | Inhalation, Skin contact, Eye contact  |
| <b>Target Organs Potentially Affected by Exposure</b> | Central Nervous System, Eyes, Lungs (only if dust or mist is present), Skin, Respiratory Tract, Liver, Kidneys                                     |
| <b>Chemical Interactions That Change Toxicity</b>     | No chemical interaction known to affect toxicity.  |
| <b>Medical Conditions Aggravated</b>                  | Respiratory disease including asthma and bronchitis, Skin contact may aggravate existing skin disease, Eye disease., Liver disease, Kidney disease |

### Immediate (Acute) Health Effects by Route of Exposure

|                              |   |
|------------------------------|---|
| <b>Inhalation Irritation</b> | Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Other possible symptoms include; wheezing and coughing due to pulmonary edema (fluid build-up in lungs).  |
| <b>Inhalation Toxicity</b>   | Can cause systemic damage (see "Target Organs")   |
| <b>Skin Contact</b>          | Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.  |
| <b>Skin Absorption</b>       | Minimal hazard in normal industrial use. May cause gastrointestinal discomfort  |
| <b>Eye Contact</b>           | Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible. |
| <b>Ingestion Irritation</b>  | Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.   |
| <b>Ingestion Toxicity</b>    | Harmful if swallowed.   |

### Long-Term (Chronic) Health Effects

|                        |  |
|------------------------|--|
| <b>Carcinogenicity</b> | Xylene has caused cancer in laboratory animals, but the relevance to humans is uncertain.  |
| <b>Inhalation</b>      | Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs") |

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**Skin Contact** Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

**Skin Absorption** Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

**Ingestion** Under normal industrial usage conditions, ingestion is highly unlikely.

## Component Toxicology Data

| Chemical Name                             | CAS Number | LD50/LC50   |
|---|------------|---|
| Hydrotreated distillate, light            | 68410-97-9 | Dermal LD50 Rabbit > 2000 mg/kg Oral LD50 Rat 5 g/kg<br>Inhalation LC50 (4h) Rat > 5.2 mg/L   |
| Methyl N-amyl ketone                      | 110-43-0   | Dermal LD50 Rabbit = 10206 mg/kg<br>Dermal LD50 Guinea pig > 16200 mg/kg<br>Dermal LD50 Rat > 2000 mg/kg Oral LD50 Rat = 1670 mg/kg<br>Oral LD50 Mouse = 730 mg/kg Inhalation LC50 (4h) Rat = 2000 - 4000 ppm |
| Methyl ethyl ketone                       | 78-93-3    | Dermal LD50 Rabbit > 2000 mg/kg Oral LD50 Rat > 2000 mg/kg  |
| Hydrotreated light distillate (Petroleum) | 64742-47-8 | Dermal LD50 Rabbit > 2000 mg/kg Oral LD50 Rat > 5000 mg/kg<br>Inhalation LC50 (4h) Rat > 20 mg/L  |
| Methyl n-propyl ketone                    | 107-87-9   | Dermal LD50 Rabbit > 20 ml/kg Oral LD50 Rat = 1600 mg/kg<br>Inhalation LC50 (4h) Rat 25.5 mg/L  |
| Zinc Phosphate (Dihydrate) Pigment        | 7779-90-0  | Oral LD50 Rat = 552 mg/kg<br>Oral LD50 Rat > 5000 mg/kg   |
| Xylene                                    | 1330-20-7  | Oral LD50 Rat 4300 mg/kg Inhalation LC50 (4h) Rat 6700 ppm  |

## SECTION 12 Ecological information

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Overview</b>        | No ecological information available |
| <b>Mobility</b>        | No data                             |
| <b>Persistence</b>     | No data                             |
| <b>Bioaccumulation</b> | No data                             |
| <b>Degradability</b>   | No data                             |

## Ecotoxicity Data

| Chemical Name                  | CAS Number | Aquatic EC50<br>Crustacea             | Aquatic ERC50<br>Algae                 | Aquatic LC50<br>Fish                          |
|--------------------------------|------------|---------------------------------------|--|---|
| Hydrotreated distillate, light | 68410-97-9 | EC50 (48 hr)<br>Daphnia 1 - 10 mg/L   | EC50 (72 hr) Algae<br>1 - 10 mg/L      | LC50 (96 hr) Fish<br>1 - 10 mg/L              |
| Methyl N-amyl ketone           | 110-43-0   | EC50 (48 hr)<br>Water flea > 90 mg/L  | EC50 (72 hr) Algae<br>= 98.2 mg/L      | LC50 (96 hr)<br>Fathead minnow =<br>131 mg/L  |
| Methyl ethyl ketone            | 78-93-3    | EC50 (48 hr)<br>Water flea > 100 mg/L | EC50 (96 hr)<br>Green algae > 100 mg/L | LC50 (96 hr)<br>Fathead minnow ><br>100 mg/L  |
| Methyl n-propyl ketone         | 107-87-9   | EC50 (48 hr)<br>Water flea > 110 mg/L | EC50 (72 hr) Algae<br>150 mg/L         | LC50 (96 hr)<br>Fathead minnow ><br>1240 mg/L |
| Xylene                         | 1330-20-7  | EC50 (48 hr)<br>Water flea 90 mg/L    |  | LC50 (96 hr)<br>Rainbow trout<br>19000 ul/l   |

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## SECTION 13 Disposal considerations

**Waste Description for Spent Product** Spent or discarded material is a hazardous waste.  
**Disposal Methods** Dispose of by incineration following Federal, State, Local, or Provincial regulations. Comply with all Local, State, Federal, and Provincial Environmental Regulations.  
**Waste Disposal Code(s)** D001

## SECTION 14 Transport information

**Full shipping name for Export, Air, Sea (any quantity unless flash pt. >150°F) or vessels of 119 GL or more** UN1993, FLAMMABLE LIQUIDS, N.O.S., (Naphtha Solvent, Ketone), 3, PG II,  
**Domestic Ground in vessels < 119 gal.** UN1993, FLAMMABLE LIQUIDS, N.O.S., (Naphtha Solvent, Ketone), 3, PG II,

## SECTION 15 Regulatory information

### Status of formula components on selected national regulatory inventories:

| LIST         | STATUS   |
|--------------|--|
| TSCA         | All components in this product are on the TSCA Inventory or exempt.                                    |
| Canadian DSL | All chemical substances in this material are included on or exempted from listing on the Canadian DSL. |

| Chemical Name                                     | CAS #     | Regulation         | Percent                        |
|---|-----------|--------------------|--------------------------------|
| Butyl benzyl phthalate                            | 85-68-7   | California Prop 65 | 0.1 - 1                        |
| Methyl ethyl ketone                               | 78-93-3   | CERCLA             | 5 - 10<br>RQ = 5000 lbs.       |
| Zinc Compounds                                    | 7779-90-0 | CERCLA             | 1 - 5<br>RQ = None<br>Assigned |
| Butyl benzyl phthalate                            | 85-68-7   | CERCLA             | 0.1 - 1<br>RQ = 100 lbs        |
| Zinc Compounds                                    | 7779-90-0 | SARA 313           | 1 - 5                          |
| No SARA 302 EHS-listed chemicals in this product. |           | SARA EHS           |                                |

## SECTION 16 Other information

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**Date**  
**Disclaimer** Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.  
**Version** Reviewed  
**Comments** Approved: M. Longo