# Safety Data Sheet

## 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>F044-0710</td>
</tr>
<tr>
<td>Product Name</td>
<td>ACCELERATOR URETHANE</td>
</tr>
</tbody>
</table>

**Other means of identification**

<table>
<thead>
<tr>
<th>Common Name</th>
<th>SERIES 44-710</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN/ID no.</td>
<td>1263</td>
</tr>
<tr>
<td>Synonyms</td>
<td>None</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

- **Recommended Use**: Industrial paint.
- **Uses advised against**: Consumer use, For professional use only. Not for residential use.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372 816-474-3400

**Emergency telephone number**

Company Phone Number: Tnemec Regulatory Dept: 816-474-3400
24 Hour Emergency Phone Number: 800-535-5053 (Infotrac)

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

**Label elements**

**EMERGENCY OVERVIEW**

**Danger**

**Hazard statements**

- Causes serious eye irritation
- May damage fertility or the unborn child
- May cause respiratory irritation. May cause drowsiness or dizziness
- Flammable liquid and vapor
Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Use explosion-proof electrical/ventilating/lighting/equipment

Response
IF exposed or concerned: Get medical advice/attention
specific treatment
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
In case of fire: Use CO2, dry chemical, or foam for extinction

Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazardous not otherwise classified (HNOC)

Other information
May be harmful in contact with skin
Harmful to aquatic life with long lasting effects
Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL N-AMYL KETONE</td>
<td>110-43-0</td>
<td>60 - 100%</td>
</tr>
<tr>
<td>DIPROPYLENE GLYCOL</td>
<td>25265-71-8</td>
<td>10 - &lt;30%</td>
</tr>
<tr>
<td>2,4-PENTANEDIONE</td>
<td>123-54-6</td>
<td>1 - &lt;10%</td>
</tr>
<tr>
<td>AMINE COMPOUNDS</td>
<td>280-57-9</td>
<td>1 - &lt;10%</td>
</tr>
<tr>
<td>DIBUTYL Tin DILAURYL Mercaptide</td>
<td>1185-81-5</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Description of first aid measures

General advice If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion Call a physician or poison control center immediately. Aspiration hazard. Do not induce vomiting without medical advice.

Self-protection of the first aider Use personal protective equipment. Avoid contact with eyes, skin and clothing.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical. Water spray. Carbon dioxide.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical FLAMMABLE Thermal decomposition can lead to release of irritating gases and vapours In the event of fire and/or explosion do not breathe fumes


Protective equipment and precautions for firefighters Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. MAY CAUSE HEAT AND PRESSURE BUILD-UP IN CLOSED CONTAINERS. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up
Methods for containment

Remove all sources of ignition. Spills may be collected with inert, absorbent material for proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer absorbent material to suitable containers for proper disposal.

Methods for cleaning up

If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Close container after each use. Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible products


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL N-AMYL KETONE</td>
<td>TWA: 50 ppm</td>
<td>TWA: 100 ppm</td>
<td>800 ppm</td>
</tr>
<tr>
<td>110-43-0</td>
<td>TWA: 465 mg/m^3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4-PENTANEDIONE</td>
<td>TWA: 25 ppm</td>
<td>Skin</td>
<td>-</td>
</tr>
<tr>
<td>123-54-6</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIBUTYLTIN DILAURYL Mercaptide</td>
<td>TWA: 0.1 mg/m^3</td>
<td>-</td>
<td>25 mg/m^3</td>
</tr>
<tr>
<td>1185-81-5</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures

Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA Permissible Exposure Limits (PEL) and ACGIH’s Threshold Limit Values (TLV). Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

If splashes are likely to occur, wear face-shield. Use chemical resistant splash type goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

Use only with adequate ventilation. Do not breathe vapors, spray mist, or dust. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist or dust levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer’s directions for respirator use.
General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td>Petroleum distillates</td>
</tr>
<tr>
<td>Odor</td>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td>7.25829 lbs/gal</td>
<td></td>
</tr>
<tr>
<td>Volatile organic compounds (VOC) content</td>
<td>6.72626 lbs/gal</td>
<td></td>
</tr>
<tr>
<td>Total volatiles weight percent</td>
<td>92.67 %</td>
<td></td>
</tr>
<tr>
<td>Total volatiles volume percent</td>
<td>94.36 %</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong acids, Alkalis, Strong oxidizing agents, sodium hypochlorite, copper

Hazardous decomposition products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke).

### 11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

**Inhalation**
May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

**Eye contact**
Severely irritating to eyes.

**Skin contact**
Contact causes severe skin irritation and possible burns.

**Ingestion**
May be harmful if swallowed and enters airways. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL N-AMYL KETONE</td>
<td>= 1600 mg/kg ( Rat ) = 1670 mg/kg ( Rat )</td>
<td>= 12.6 mL/kg ( Rabbit ) = 12600 µL/kg ( Rabbit )</td>
<td>2000 - 4000 ppm ( Rat ) 6 h</td>
</tr>
<tr>
<td>DIPROPYLENE GLYCOL</td>
<td>= 14850 mg/kg ( Rat )</td>
<td>&gt; 20 mL/kg ( Rabbit )</td>
<td>-</td>
</tr>
<tr>
<td>2,4-PENTANEDIONE</td>
<td>= 55 mg/kg ( Rat ) = 570 mg/kg ( Rat ) = 760 mg/kg ( Rat )</td>
<td>= 1370 mg/kg ( Rabbit ) = 790 mg/kg ( Rabbit ) = 810 µL/kg ( Rabbit )</td>
<td>= 1224 ppm ( Rat ) 4 h</td>
</tr>
<tr>
<td>AMINE COMPOUNDS</td>
<td>= 1700 mg/kg ( Rat )</td>
<td>= 3200 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on toxicological effects

**Symptoms**
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Skin disorders.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity**
NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Sensitization**
No information available.

**Mutagenicity**
No information available.

**Carcinogenicity**
There are no known carcinogenic chemicals in this product.

**Reproductive effects**
May damage fertility or the unborn child.

**STOT - single exposure**
Eyes, Skin, Respiratory system, Central Nervous System (CNS), Peripheral Nervous System (PNS)

**STOT - repeated exposure**
No information available

**Target organ effects**
Central nervous system, Eyes, Peripheral Nervous System (PNS), respiratory system, Skin.

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

**Acute Toxicity**
0 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life with long lasting effects

14.25912 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL N-AMYL KETONE</td>
<td>126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-43-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIPROPYLENE GLYCOL</td>
<td>5000: 24 h Carassius auratus mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25265-71-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4-PENTANEDIONE</td>
<td>50.3 - 71.8: 96 h Lepomis</td>
<td>34.4: 48 h Daphnia magna mg/L</td>
<td></td>
</tr>
<tr>
<td>123-54-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in Environmental Media

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL N-AMYL KETONE 110-43-0</td>
<td>1.98</td>
</tr>
<tr>
<td>2,4-PENTANEDIONE 123-54-6</td>
<td>0.34</td>
</tr>
</tbody>
</table>

Other Adverse Effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods
Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN/ID no. 1263
Proper Shipping Name Paint related material
Hazard Class 3
Packing Group III
Emergency Response Guide Number 366

Proper Shipping Name Paint related material

Additional information
Call TNEMEC Traffic Department - 816-474-3400 for additional information or other modes of Transportation.

15. REGULATORY INFORMATION

International Inventories
TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS  Complies
IECSC  Complies
KECL  Complies
PICCS  Complies
AICS  Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous
Categorization
Acute Health Hazard  Yes
Chronic Health Hazard  Yes
Fire Hazard  Yes
Sudden Release of Pressure Hazard  No
Reactive Hazard  No

California Prop. 65
WARNING: None of the ingredients are listed with California Proposition 65.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIBUTYLTIN DILAURYLMERCAPTIDE - 1185-81-5</td>
<td>REPRODUCTIVE</td>
</tr>
</tbody>
</table>

California SCAQMD Rule 443
Contains Photochemically Reactive Solvent

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL N-AMYL KETONE 110-43-0</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>DIPROPYLENE GLYCOL 25265-71-8</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>2,4-PENTANEDIONE 123-54-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>2</th>
<th>Flammability</th>
<th>2</th>
<th>Instability</th>
<th>1</th>
<th>Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS (Hazardous Material Information System)</td>
<td>Health</td>
<td>2*</td>
<td>Flammability</td>
<td>2</td>
<td>Reactivity</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Prepared By  Tnemec Regulatory Dept: 816-474-3400
Revision Date  16-Feb-2018
Revision Summary  9 5 7 10 8 11 14 15
Disclaimer
For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.
To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of SDS